UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

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Signature of Supdt.:

Paper: Arabic-II

Course Code: ARB-102 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

اس پرچہ کو اسی سوالیہ پرچہ پر حل کریں۔

This Paper will be collected back after expiry of time limit mentioned above.

سوال نمبر1: درج ذیل میں سے درست جواب کا انتخاب کریں۔ **(1x10=10)**

i. ثلاثی مجرد کے سب سے کم افعال کس باب سے آتے ہیں۔

(الف) باب اول (ب) باب سوم (ج) باب چہارم (د) باب ششم

ii. وہ فعل جس میں صرف فاعل کے ملنے سے پوری بات بن جائے۔

(الف) فعل لازم (ب) فعل متعدی (ج) فعل معروف (د) فعل مجہول

iii. مضارع پر کون سا لفظ لگانے سے ماضی استمراری بن جاتا ہے۔

(الف) قَد (ب) کَانَ (ج) سَوفَ (د) لَعَلَّ

iv. اسمائے مشتقہ کتنے ہیں۔

(الف) 3 (ب) 5 (ج) 7 (د) 9

v. کثیر الاستعمال ابواب ثلاثی مزید فیہ کی تعداد ہے۔

(الف) 4 (ب) 6 (ج) 8 (د) 10

vi. تین سے دس تک معدود، عدد کے آتا ہے۔

(الف) موافق (ب) عکس (ج) دونوں طرح (د) کسی طرح بھی نہیں

vii. اسم مصغر میں معنی پایا جاتا ہے۔

(الف) چھوٹا ہونے کا (ب) بڑا ہونے کا (ج) برابر ہونے کا (د) مؤنث ہونے کا

viii. دَعَا سے فعل امر ہے۔

(الف) یَدعُوا (ب) لَم یَدعُ (ج) قَد دَعَا (د) اُدعُ

xi. جس کلمے میں حرف علت پایا جائے وہ کہلاتا ہے۔

(الف) المضعف (ب) المعتل (ج) المھموز (د) السالم

x. قوم عاد کی طرف رسول بنا کر مبعوث کیے گئے۔

(الف) نوح علیہ السلام (ب) صالح علیہ السلام (ج) ھود علیہ السلام (د) لوط علیہ السلام

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Arabic-II

Course Code: ARB-102 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر2: درج ذیل سوالات کے مختصر جوابات دیں۔ (10x2=20)

1. فعل لازم اور فعل متعدی میں کیا فرق ہے؟ مثال سے وضاحت کریں۔
2. کیا کبھی فعل لازم سے بھی کسی طریقے سے مجہول آسکتا ہے؟
3. حروفِ ناصبہ کے داخل ہونے سے مضارع کے معنی اور اعراب میں کیا تغیر ہوتا ہے؟
4. مضارع میں نونِ اعرابی کتنے صیغوں میں آتا ہے؟
5. امر حاضر مجہول کس طرح بنایا جاتا ہے؟
6. باب سمع سے نہی حاضر کی گردان لکھئے۔
7. اسم ظرف کیا ہے؟ اور وہ کس وزن پر آتا ہے؟
8. اسماء الصفۃ کے کثیر الاستعمال اوزان کون کون سے ہیں؟
9. رباعی مزید کے کتنے ابواب ہیں؟ ان کے نام لکھیں۔
10. اسم التفضیل کی گردان لکھئے۔

سوال نمبر3: مندرجہ ذیل پیراگراف کا اردو میں ترجمہ کریں۔ (10)

قَالُوا: يَقُولُ: اعبُدُوا اللهَ مَا لَكُم مِن إِلٰهٍ غَيرُهُ، وَ يَقُولُ إِنَّ اللهَ يَبعَثُكُم بَعدَ مَوتِكُم وَ يَجزِيَكُم. وَ يَقُولُ: أَنَا رَسُولُ اللهِ أَرسَلَنِي إِلىٰ قَومِي ضَحِكَ الأَغنِيَاءُ وَ قَالُوا: مِسكِين! هَل يَكُونُ هٰذَا رَسُولاً؟ مَا عِندَهُ قَصر وَ لَا بُستَان، وَ مَالَهُ زَرع وَ لَا نَخِيل! فَكَيفَ يَكُونُ هٰذَا رَسُولاً؟

سوال نمبر4: مندرجہ ذیل جملوں میں سے 5 کا عربی میں ترجمہ کریں۔ (5x2=10)

1. پھر تم ظہر کے بعد کیا کرتے ہو؟
2. ہم ان دنوں ناشتہ کے بعد مدرسہ جاتے ہیں۔
3. احمد نے محمود کو نیک گمان کیا۔
4. اس لڑکی کا بھائی جاپان کی لڑائی میں مارا گیا۔
5. میں نے کل اپنا سبق یاد کیا تھا۔
6. میں نے سیر ہو کر امرود کھائے۔
7. اللہ نے انسان کو پیدا کیا تاکہ وہ اس کی عبادت کرے۔
8. نماز نیند سے بہتر ہے۔

سوال نمبر5: درج ذیل جملوں پر اعراب لگائیں۔ (5x2=10)

1. و من زحزح عن النار وادخل الجنة فقد فاز
2. وذكر فان الذكرى تنفع المؤمنين.
3. حاتم قليل العقل واخوه اقل العقل منه.
4. فاراد ان يشفع لابنه عند الله.
5. وكانوا ينحتون الاصنام من الحجارة بايديهم ثم يسجدون لها ويعبدونها.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Fundamentals of Psychology
Course Code: APSY-111 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. The first psychological lab was established by
   a) Wundt b) Titchner
   c) Pavlov d) Watson
2. Who is called the father of Psychoanalysis?
   a) William James b) Freud
   c) Carl Rogers d) Skinner
3. Basic unit of nervous system is
   a) Axon b) Dendrite
   c) Synapse d) Neuron
4. Which is not included in the Sensation?
   a) Audition b) Olfaction
   c) Imagination d) Gustation
5. There are no rods and cones in
   a) Retina b) Optic disc
   c) Cornea d) Pupil
6. It is called the Master gland
   a) Thyroid b) Pineal
   c) Pituitary d) Gonad
7. Curiosity is the _____ motive.
   a) Primary b) Socio-genic
   c) Biogenic d) Inherited
8. GSR stands for
   a) Galvanometer Standing Reading b) Gastro Severe Response
   c) Galvanic Skin Response d) Google Search Reading
9. Relatively permanent change in behaviour is termed as
   a) Observation b) Learning
   c) Intelligence d) Personality
10. Who is the Father of Behaviourism?
   a) Watson b) Skinner
   c) Freud d) Pavlov

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Fundamentals of Psychology
Course Code: APSY-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers: (20)

1. Define Motivation. (2)
2. When do we use Survey method? (2)
3. Differentiate between Temporal and Spatial perception. (4)
4. Differentiate between Central Nervous System and Peripheral Nervous System. (4)
5. Differentiate between Sensation and Perception. (4)
6. Name different types of observation. (2)
7. Define Self-esteem. (2)

Q.3. Answer the following questions: (3x10=30)

1. Write a detailed note on Endocrine System.
2. Define Learning and write in detail about any ONE type of Conditioning with examples.
3. Briefly discuss the theories of emotion in detail.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Applied Psychology
Course Code: PSY-111 **Part – I (Compulsory)** **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

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Q.1. Choose the correction option only. **(10x1=10)**

1. Large scale data is collected by using _____ method

Case Study
Survey method
Participant Observation
Experimental method

2. This is NOT used as measure of central tendency

Mean
Median
Mode
Standard deviation

3. It is called the basic unit of nervous system

Neuron
Ganglion
Axon
Myelin

4. Outer ear is also known as

Fiona
Fauna
Pinna
Plantae

5. It is also known as working memory

Sensory
Short Term
Long term
Eidetic

P.T.O.

6. Food works as _____ in classical conditioning

CS
UCS
CR
UCR

7. If a person achieved a score of 100 on WAIS what does his score mean.

He answered 100 questions correctly
He completed 100 questions, whether correctly or incorrectly
He has 100 units of intelligence
He achieved an average IQ score compared to other people

8. A complex, subjective experience that is accompanied by biological and behavioral changes is termed as

Emotion
Motivation
Relaxation
Hibernation

9. It is defined as a relatively permanent change in behaviour

Learning
Intelligence
Motivation
Emotion

10. It is the collection of characteristic thoughts, feelings, and behaviors that make up a person.

Persona
Person
Personality
Disorder

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Applied Psychology
Course Code: PSY-111 **Part – II** **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers: (20)

1. What is the difference between illusion and hallucination (4)
2. Name and define any two types of graphs (4)
3. Differentiate between intrinsic and extrinsic motivation (4)
4. Write any FOUR methods which can be used for improving memory (4)
5. Name and define types of memory (4)

Q.3. Answer the following questions: (30)

1. Define visual sensation. Write a detailed note on structure and functions of eye (10)

2. Define auditory sensation. Write a detailed note on structure and functions of ear (10)

3. What is the relationship between expression of emotions and psychological well-being? Support your answer with relevant examples. (10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Applied Areas of Psychology
Course Code: APSY-121 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Consonant/vowel sounds produced by babies between 4 to 6 months

a. Babbling
b. Chewing
c. Cooing
d. Whooping

2. He is considered as the father of guidance movement

a. Frank Parsons
b. Carlson
c. Pineal
d. Watson

3. In the late 1870's, in Germany, _____ founded the first experimental psychology laboratory and studied the human mind.

a. Wilhelm James
b. Wilhelm Wundt
c. Phillip William
d. William McDougal

4. Coleman R. Griffith (1893-1966) is credited as the founder of _____ psychology.

a. Forensic
b. School
c. Sports
d. Health

5. PCL-R is the best single predictor of _____behaviour

a. Non-violent
b. Violent
c. Assertive
d. Altruistic

P.T.O.

6. It can only testify about direct observations

a. Fact witness
b. Expert witness
c. Both
d. None

7. He offered the first course in sports psychology 1923, and later published the first book on the subject titled *The Psychology of Coaching* (1926).

a. Carl Diem
b. Puni
c. Griffith
d. Antonelli

8. He established the SSP in 1965 and by the 1970s sports psychology had been introduced to university course offerings throughout North America.

a. Carl Diem
b. Puni
c. Griffith
d. Antonelli

9. American Psychological Association's Division of Health Psychology is

a. 28
b. 38
c. 48
d. 58

10. This model of health psychology is also called the 'Stages of Change' model

a. BPS
b. TTM
c. HBM
d. IBM

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B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Applied Areas of Psychology
Course Code: APSY-121 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question – 2: Give Short Answers (20)

i. In which settings Counseling Psychologists Typically Work? (2)
ii. Differentiate between phenotype and genotype. (2)
iii. What is information processing perspective? (2)
iv. What is meant by insanity defense? (2)
v. What are the characteristics of a good teacher? (2)
vi. What is the status of Forensic Psychology in Pakistan? (2)
vii. What is meant by biopsychosocial model of health and illness? (2)
viii. What is the role of sports psychologist? (2)
ix. Differentiate between Clinical Psychology and Counseling Psychology (4)

Question – 3: Answer the Following Questions (30)

i. Every area of development in psychology can be looked at from various perspectives. Name them and define in detail any **ONE** of them (10)

ii. Define Organizational Psychology. Write brief history and scope of Organizational Psychology (10)

iii. Define Forensic Psychology. What is the status of Forensic Psychology in the world as well as in Pakistan? (10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Principles of Management

Course Code: BBA-102/ GEN-12130 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Choice between two alternatives is called
A. Problem
B. Decision
C. Intuition
D. All of these

2. Working with and through people is called:
A. Leading
B. Planning
C. Controlling
D. Organizing

3. The breakdown of jobs into repetitive tasks is known as:
A. Division of labor
B. Division of money
C. Both of above
D. None of these

4. Decision style characterized by a person's preference for using external data and processing this information through rational, logical thinking is called_____
A. Linear thinking style
B. Non linear thinking style
C. Non Rational thinking style
D. Cooperative thinking style

5. The goals that an organization actually pursues are known as:
A. Real goals
B. Stated goals
C. Time limited goals
D. None of these

6. The plans which are framed beyond 3 years are:
A. Short term plans
B. Medium term plans
C. Long term plans
D. All of these

P.T.O.

7. A group of people who do not work together physically and are connected through internet are called_____
A. Problem solving team
B. Cross functional team
C. Self managed team
D. Virtual team

8. The view of management in which external factors are held responsible for company's success and failure:
A. Symbolic view
B. Controversial view
C. Cultural view
D. Omnipotent view

9. The ways in which people in an organization are different from and similar to one another:
A. Workplace conflict
B. Workforce similarity
C. Workforce diversity
D. All of these

10. An organizational design that's not adaptive and flexible.
A. Organic organization
B. Mechanistic organization
C. Rigid organization
D. None of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Principles of Management
Course Code: BBA-102/ GEN-12130 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. 2 Give Short answers of the following questions: **(10×2=20)**

1. What is the difference between efficiency and effectiveness?
2. Define human skills of a manager?
3. What is meant by chain of command?
4. What do you meant by HRM?
5. Differentiate between centralization and decentralization?
6. Define leadership.
7. Explain rational decision making?
8. What is scientific management theory?
9. What is SWOT analysis?
10. Define organizational design.

Q.3 Define Culture. Write a detailed note on dimensions of culture. **(10)**

Q.4 ? Write a note on Maslow's hierarchy of needs theory. **(10)**

Q.5 Discuss importance of management in detail. **(10)**

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Financial Accounting (Basic)
Course Code: BBA-103 / BUS-12347 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. **Which of the following statements is incorrect?**
   a) Assets – Capital = Liabilities
   b) Liabilities + Assets = Capital
   c) Liabilities + Capital = Assets
   d) Assets – Liabilities = Capital

2. **Which of the following is not an asset?**
   a) Buildings
   b) Cash balance
   c) Accounts receivable
   d) Loan from HBL

3. **Which of the following is correct?**
   a) Profit reduces capital
   b) Profit increases capital
   c) Profit does not alter capital
   d) Capital can only come from profit

4. **Which of the following best describes a trial balance?**
   a) It shows the financial position of a business
   b) It is a special account
   c) It is a list of balances on the books
   d) It shows all the entries in the books

5. **Which if the following best describes the meaning of 'Purchases'?**
   a) Items bought
   b) Goods bought on credit
   c) Goods bought for resale
   d) Goods paid for

6. **Suppliers' personal accounts are found in the:**
   a) Nominal ledger
   b) General ledger
   c) Purchases ledger
   d) Sales ledger

P.T.O.

7. **Which of the following best describes non-current assets?**

a) Items bought to be used in the business
b) Items which will not wear out quickly
c) Expensive items bought for the business
d) Items having a long life and not bought specifically for resale

8. **Gross profit is:**

a) Excess of sales over cost of goods sold
b) Sales less purchases
c) Cost of goods sold + opening inventory
d) Net profit less expenses of the period

9. **Capital expenditure is:**

a) The extra capital paid in by the proprietor
b) The costs of running the business on a day-to-day basis
c) Money spent on buying non-current assets or adding value to them
d) Money spent on selling non-current assets

10. **An unearned income is an example of:**

a) Liability
b) Expense
c) Revenue
d) Asset

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Financial Accounting (Basic)
Course Code: BBA-103 / BUS-12347 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2: **Give short answers to the following questions:**

1. Define Depletion.
2. What is Matching Concept.
3. Differentiate between an Unearned Revenue and a Revenue Receivable.
4. Define Current Assets.
5. Differentiate between Returns Inwards and Returns Outwards.
6. What is Statement of Cash Flows?
7. What is meant by Acid Test Ratio?
8. What is Straight Line Method of Depreciation?
9. What is the difference between a Sales Ledger and a Purchases Ledger?
10. What is meant by Historical Cost Concept? **(20)**

Q. No. 3: Selected financial data for MMF, a retail store, appear as follows:

	2018	2017
Sales (all on account)	$750,000	$610,000
Cost of goods sold	495,000	408,000
Average inventory during the year	110,000	102,000
Average receivables during the year	150,000	100,000

Instructions:

Compute the following for both years:

1. Gross Profit percentage
2. Inventory turnover
3. Accounts receivable turnover **(10)**

Q. No.4: JY Internet Consulting Service, Inc., adjusts its accounts every month. Following is the unadjusted trial balance dated December 31, 2018. (Bear in mind that adjusting entries already have been made for the first eleven months of 2018, but not for December.)

JY Internet Consulting Service, Inc.
Unadjusted Trial Balance
December 31, 2018

Cash	$49,100	
Consulting fees receivable	23,400	
Prepaid office rent	6,300	
Prepaid dues and subscriptions	300	
Supplies	600	
Equipment	36,000	
Accumulated depreciation: equipment		$10,200
Notes payable		5,000
Income taxes payable		12,000
Unearned consulting fees		5,950
Capital stock		30,000
Retained earnings		32,700
Dividends	60,000	
Consulting fees earned		257,180
Salaries expense	88,820	
Telephone expense	2,550	
Rent expense	22,000	
Income taxes expense	51,000	
Dues and subscriptions expense	560	
Supplies expense	1,600	
Depreciation expense: equipment	6,600	
Miscellaneous expenses	4,200	
	$353,030	$353,030

P.T.O

Other Data:

a. On December 01, the company signed a new rental agreement and paid three months' rent in advance at a rate of $2,100 per month. This advance payment was debited to the Prepaid Office Rent account.
b. Dues and subscriptions expiring during December amounted to $50.
c. An estimate of supplies on hand was made at December 31; the estimated cost of the unused supplies was $450.
d. The useful life of the equipment has been estimated at five years (60 months) from date of acquisition.
e. Accrued interest on notes payable amounted to $100 at year-end. (Set up accounts for Interest Expense and for Interest Payable.)
f. Consulting services valued at $2,850 were rendered during December to clients who had made payment in advance.
g. It is the custom of the firm to bill clients only when consulting work is completed or, in the case of prolonged engagements, at monthly intervals. At December 31, consulting services valued at $11,000 had been rendered to clients but not yet billed. No advance payments had been received from these clients.
h. Salaries earned by employees but not paid as of December 31 amount to $1,700.
i. Income taxes expense for the year is estimated at $56,000. Of this amount, $51,000 has been recognized as expense in prior months, and $39,000 has been paid to tax authorities. The company plans to pay the $17,000 remainder of its income tax liability on January 15.

Instructions:

a. Prepare the necessary adjusting journal entries on December 31, 2018.
b. Prepare an income statement for the year ended December 31, 2018 after making above adjustments. **(10)**

Q. No. 5: Glenn Grimes is the founder and president of Heartland Construction, a real estate development venture. The business transactions during February while the company was being organized are listed below:

Feb. 01	Grimes and several others invested $500,000 cash in the business in exchange for 25,000 shares of capital stock.
Feb. 10	The company purchased office facilities for $300,000, of which $100,000 was applicable to the land, and $200,000 to the building. A cash payment of $60,000 was made and a note payable was issued for the balance of the purchase price.
Feb. 16	Computer equipment was purchased from PC World for $12,000 cash.
Feb. 18	Office furnishings were purchased from Hi-Way Furnishings at a cost of $9,000. A $1,000 cash payment was made at the time of purchase, and an agreement was made to pay the remaining balance in two equal instalments due on March 01 and April 01. Hi-Way Furnishings did not require that Heartland signs a promissory note.
Feb. 22	Office supplies were purchased from Office World for $300 cash.
Feb. 23	Heartland discovered that it paid too much for a computer printer purchased on Feb. 16. The unit should have cost only $359, but Heartland was charged $395. PC World promised to refund the difference within seven days.
Feb. 27	Mailed Hi-Way Furnishings the first instalment due on the account payable for office furnishings purchased on Feb. 18.
Feb. 28	Received $36 from PC World in full settlement of the account receivable created on Feb. 23.

Instructions:

Record each of the above transactions in general journal form. Select the appropriate account titles from the following chart of accounts:

Cash	Capital Stock
Accounts Receivable	Computer Systems
Office Supplies	Notes Payable
Office Furnishings	Land
Accounts Payable	Office Building

(10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Psychology (BBA)
Course Code: BBA-104/PSY-12451 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. A person was involved in a bad car accident three weeks ago in which his best friend died at the scene. Ever since the accident, he has not been able to sleep, thinks about the accident all the time and refuses to ride in a car. He is most likely suffering from:

a. Depression
b. Obsessive Compulsive Disorder
c. Apnea
d. Acute Stress disorder

2. Once you have started work for an organization through socialization and training it will seek to shape you to fit in and to contribute to achieving its goals. But which of the following is NOT true of socialization?

a. Socialization is the process by which members of society are taught how to behave and feel by influential members of that society.
b. Socialization can occur in a country, organization or even in a family.
c. In the past, socialization theory research has concentrated on the development of adults, but more recently, it has become clear that children are socialized.
d. When employees start work, they learn to align their work values with those of the organization

3. All of the following are examples of selection procedures used by organizations to match people with jobs except for:

a. Workload test
b. Biodata
c. Interview
d. None of the above

4. Research has indicated that egocentricity, group polarization and production- blocking all contribute to disminshed

a. Group decision – making
b. Group cohesiveness
c. Organizational culture
d. Group effectiveness

P.T.O.

5. What are the psychological effects of unemployment on individuals?

   a. Depression
   b. Negative self-esteem
   c. Low level of functioning
   d. All of the above

6. External stimuli that lead to goal-directed behavior are called:

   a. Drives
   b. Needs
   c. Incentive
   d. Reciprocal

7. Most psychologist believe that aggression is:

   a. an innate biological response to frustration
   b. linked to sexual drive
   c. a drive that builds up over time and must be released
   d. none of these

8. Psychology may best be described as the scientific study of _____ and _____.

   a. Mental states, physical states
   b. Thoughts, emotions
   c. Behavior, mental processes
   d. Mental health, mental illness

9. Any stimulus that follows a behavior and increases the likelihood that the behavior will be repeated is called a:

   a. Cue
   b. Situational stimulus
   c. Reinforce
   d. Punisher

10. It is defined as a relatively permanent change in behaviour

   a. Learning
   b. Intelligence
   c. Motivation
   d. Emotion

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Psychology (BBA)
Course Code: BBA-104/PSY-12451 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers: (20)

1. What is the normal reaction to frustration? (4)
2. When does an individual require therapy? (4)
3. Name and define types of Communication (4)
4. Group norms are important to follow. Why? (4)
5. Emotions make person weak. How? (4)

Q.3. Answer the following questions: (30)

1. It is said that Man studies himself. How? Prove your answer with relevant examples. (10)
2. How Biology determines the behaviour? Discuss. (10)
3. Define Motivation. How incentives drive our behavior? (10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Contemporary World Media

Course Code: BSCS-102 Part – I (Compulsory) Time: 15 Min. Marks: 10

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This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

سوال نمبر 1: درج ذیل میں سے درست جواب کا انتخاب کریں۔

1. Al-Jazeera is situated in:
   (a) Kuwait (b) Saudi Arabia (c) Qatar

   1. الجزیرہ (Al-Jazeera) واقع ہے:
   (الف) کویت (ب) سعودی عرب (ج) قطر

2. The headquarter of CNN is in:
   (a) New York (b) Washington D.C. (c) Atlanta

   2. سی این این (CNN) کا ہیڈ کوارٹر ہے:
   (الف) نیویارک (ب) واشنگٹن (ج) اٹلانٹا (Atlanta)

3. Which is the oldest news agency of the world:
   (a) APP (b) AFP (c) AP

   3. دنیا کی سب سے قدیم نیوز ایجنسی ہے:
   (الف) APP (ب) AFP (ج) AP

4. Reuter is a news agency of:
   (a) England (b) America (c) France

   4. Reuter نیوز ایجنسی کا تعلق ہے:
   (الف) برطانیہ (ب) امریکہ (ج) فرانس

5. The popularity of Walt Disney is based on:
   (a) Movies (b) News (c) Cartoon

   5. WaltDisney کس وجہ سے مشہور ہے:
   (الف) فلموں (ب) خبروں (ج) کارٹون

6. Reuters is:

   6. ریوٹرز کیا ہے؟
   (a) A news agency (b) Media conglomerate (c) Name of news anchor

(PTO)

7. HBO stands for:

.7 HBO مخفف ہے۔

(a) Home box office (b) House box office
(c) Home box organization

8. DPA stands for:

.8 DPA مخفف ہے۔

(a) Deutsche Press-Agency (b) Deutsche Press-Agentur
(c) Developed Press Association

9. AOL is:

.9 AOL کیا ہے۔

(a) Media Conglomeration (b) Documentary TV Channel
(c) Cartoon TV Channel

10. The Washington post is:

.10 واشنگٹن پوسٹ کیا ہے؟

(a) Daily newspaper (b) Weekly newspaper
(c) Fortnightly newspaper

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Contemporary World Media
Course Code: BSCS-102 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question # 2: Answer the following short questions. (4x5=20)

سوال نمبر2: درج ذیل سوالوں کے مختصر جواب دیں۔

i. Define Media Conglomerate.

i. Media Conglomerate کو بیان کریں۔

ii. Name any four news agencies of the world along with the name of country where they exist.

ii. دنیا کی کوئی سی چار نیوز ایجنسیوں کے نام تحریر کریں اور کن ممالک میں واقع ہیں۔

iii. Draw a comparison between policy of CNN and BBC.

iii. CNN اور BBC کی پالیسی کا موازنہ کریں۔

iv. Write few lines on Viacom.

iv. Viacom پر کچھ سطریں لکھیں۔

Question # 3: Answer the following Questions. (15x2=30)

سوال نمبر2: مندرجہ ذیل سوالوں کے ج واب دیں۔

i. Elucidate the profile and organizational structure of Newsroom of Fox News in detail.

i. Fox News کی پروفائل اور نیوز روم کے ڈھانچے کے بارے میں تفصیلاً تحریر کریں۔

ii. Write short notes on any THREE of the following:

ii. مندرجہ ذیل میں سے کسی بھی تین پر نوٹ لکھیں۔

a. Economist
b. Star News
c. Time Warner
d. BBC

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Mass Communication

Course Code: BSCS-111/ MAS-12110 / MASS-111 Part–I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

سوال نمبر 1: درج ذیل میں سے درست جواب کا انتخاب کریں۔

1. Talking to one self is known as _____ communication.

1. خود کلامی ان میں سے کیا کہلاتی ہے _____

(a) Interpersonal (b) Intrapersonal
(c) Extra personal (d) Mass Communication

2. The hindrance in the process of communication is:

2. کمیونیکیشن کے عمل میں رکاوٹ کہلاتی ہے:

(a) Noise (b) Destruction
(c) Interval (d) Encoding

3. Which one is not a function of mass communication?

3. ان میں سے کون سا ماس کمیونیکیشن کا کام نہیں ہے؟

(a) Inform (b) Educate
(c) Demotivate (d) Entertain

4. Periodical are included in:

4. رسالے ان میں سے کس کی مثال ہیں؟

(a) Electronic media (b) Digital media
(c) Print media (d) None

5. Communicating with plants and animals is a form of non-verbal communication known as:

5. جانوروں اور پودوں سے بات چیت کرنا کہلاتا ہے:

(a) Intra Personal (b) Extra Personal
(c) Verbal (d) None

6. In the communication process _____ is the individual who initiate a message and is often called the communicator or source of communication.

6. مواصلات کے عمل میں ایک فرد جو پیغام دیتا ہے اسے کیا کہا جاتا ہے؟

(a) Receiver (b) Sender
(c) Extra Personal (d) None of these

(PTO)

7. A Communication _____ refers either to transmission medium such as a wire, or to a logical connection over a multiplexed medium such as a radio in telecommunications and computer networking. .7

کسی مواصلات کا مطلب ترسیل کا ذریعہ ہوتا ہے جیسے تاروں کی ملٹی پلکس میڈیم، جیسے ٹیلی مواصلات اور کمپیوٹر نیٹ ورکنگ ہے۔

(a) Message (b) Channel
(c) Intra personal communication (d) None of these

8. In rhetorical and communication studies, a ____ is defined as information conveyed by words (in speech or writing) and / or other signs and symbols. .8

بیان بازی اور مواصلات کے مطالعے میں ایک معلومات کو الفاظ میں تبدیل کرنے کو کہتے ہیں۔

(a) Message (b) Decoding
(c) Agenda Setting (d) Propaganda

9. The _____ means interpreting the meaning of the message. .9

_____ کا مطلب پیغام کی ترجمانی کرنا ہے۔

(a) Encoding (b) Decoding
(c) Channel (d) Receiver

10. The _____ is the process of turning thoughts into communication. .10

_____ خیالات کو مواصلات میں بدلنے کا عمل ہے۔

(a) Decoding (b) Encoding
(c) Encoder (d) Decoder

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Mass Communication
Course Code: BSCS-111/ MAS-12110 / MASS-111 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers. **(5x4=20)**

i. Elaborate the concept of communication.

بلاغ کے تصور پر روشنی ڈالیں۔

ii. State the importance of feedback in the process of communication.

ابلاغ میں آراء کی اہمیت کو واضح کریں۔

iii. Elaborate a few functions of mass communication with relevant examples.

متعلقہ مثالوں کے ساتھ بڑے پیمانے پر مواصلات کے کچھ افعال کی وضاحت کریں۔

iv. Draw a comparison between print and electronic media, which one is more effective these days?

پرنٹ اور الیکٹرانک میڈیا کے مابین ایک موازنہ کریں۔ ان دونوں میں سے موجودہ حالات میں کونسا زیادہ مؤثر ہے؟

v. Draw the process of communication stating various aspects involved in it.

ابلاغ کے عمل کی وضاحت کریں۔ اس میں شامل مختلف پہلوؤں پر روشنی ڈالیں۔

Q.3. Answer the long questions. **(10x3=30)**

i. Agenda setting is the back bone of any communication on media. Elaborate the levels of agenda setting how it is exhibited in media platform.

ایجنڈا سیٹنگ کسی بھی میڈیا میں ریڑھ کی ہڈی کی اہمیت رکھتا ہے۔ ایجنڈا سیٹنگ کے درجوں کی مثالوں کے ساتھ وضاحت کریں۔

ii. Development is an emerging phase of media sector. Throw light on the aspect of public opinion formation through development function of mass media.

ڈیویلپمنٹ میڈیا کا ابھرتا ہوا سیکٹر ہے۔ ماس میڈیا کے ذریعے ترقیاتی منصوبوں میں رائے عامہ کی تشکیل کے پہلو پر روشنی ڈالیں۔

iii. Explain various types of communication, state examples to elaborate the concept.

ابلاغ کے مختلف اقسام کی وضاحت کریں مثالوں کے ساتھ بحث کریں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Botany-II (Plant Systematic Anatomy & Development Theory)

Course Code: BOT-103 / BOT-12300 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1- Chitinous wall is present in
   a) Plants
   b) Bacteria
   c) Fungi
   d) Protists

2- The system of plant classification proposed by Carolus Linnaeus was artificial because
   a) It was based on evolutionary relationship of plants
   b) It was based on similarities and differences in floral and other morphological characters only
   c) It took into account the physiological facts along with the morphological characters
   d) None of these

3- Synandrous condition is common in the family
   a) Umbelliferae
   b) Rosaceae
   c) Malvaceae
   d) Cucurbitaceae

4- Tunica Corpus Theory Is Connected With
   a) Root Apex
   b) Root Cap
   c) Shoot Apex
   d) Secondary Growth

5 Cork cambium and vascular cambium are
   a) Parts of secondary xylem and phloem
   b) Parts of Pericycle
   c) Lateral Meristem
   d) Apical Meristem

P.T.O.

6 - As a tree grows older, which of the following increases more rapidly in thickness?

a) Heart Wood

b) Sap Wood

c) Phloem

d) Cortex.

7- All the following plant groups possess phloem parenchyma except

a) Dicots

b) Monocots

c) Gymnosperm

d) Pteridophytes

8- Wood parenchyma is formed from

a) Fusiform initials

b) Ray initials

c) Collenchymas cells

d) All of these

9- α-taxonomy deals with

a) Classical Taxonomy

b) Chemotaxonomy

c) Phylogeny

d) Experimental Taxonomy

10- Non-essentional parts of flowers are

a) Sepals and petals

b) Sepals and carpels

c) Sepals and gynoecium

d) Androecium and gynoecium

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Botany-II (Plant Systematic Anatomy & Development Theory)
Course Code: BOT-103 / BOT-12300 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. 2: Answer the following questions (20)

1. Differentiate between racemose and cymose inflorescens
2. Differentiate between Apical and intercalary meristem
3. What are Paracytic and Diactyic stomata
4. Differentiate between fibrous tap roots and tuberous tap roots
5. Differentiate between Pinnate and Palmate compound leaves
6. Give botanical names of four plants of family Ranunculaceae
7. Give the composition of secondary wall
8. What is Collenchyma? Give its two functions
9. Differentiate between natural and artificial system of classification
10. What are Pits? Give their functions

Q.3: Answer the following questions briefly (30)

1. Define classification. Discuss Benthum and Hooker system of classification in detail
2. What is meristem? Describe organization of cells in root apical meristem.
3. Describe the various types of simple tissues and their functions.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Business Administration
Course Code: BADMIN-111 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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Q.1. Encircle the right answer cutting and overwriting is not allowed. **(10x1=10)**

i. In partnership, each partner is considered:
a) Agent b) Officer
c) Employee d) Director

ii. A special resolution is passed with:
a) Simple majority b) 65% majority
c) 60% majority d) 75% majority

iii. A company is managed by:
a) Shareholders b) Directors
c) Promoters d) Members

iv. A firm may dissolve by:
a) Agreement b) Court
c) Notice d) All of the above

v. in partnership, the liability of partners is:
a) Joint b) Joint and several
c) Several d) Individual

vi. Listed company must have at least:
a) 2 directors b) 3 directors
c) 5 directors d) 7 directors

vii. Which meeting can be held more than once in a year.
a) Extraordinary general b) Special general
c) Statutory d) Annual general

viii. Share capital of a company is fixed by:
a) Articles b) Prospectus
c) Registrar d) Memorandum

ix. A company formed under a special Act is called:
a) Chartered company b) Statutory company
c) Registered company d) Special company

x. An association of cement manufacturers is an example of:
a) Diagonal combination b) Circular combination
c) Vertical combination d) Horizontal combination

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Business Administration
Course Code: BADMIN-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions. (10x2=20)

i. Give two advantages of sole proprietorship.
ii. Differentiate between partnership and co-ownership.
iii. What is a joint stock company?
iv. List down types of debentures.
v. What are different clauses of memorandum of association?
vi. What is horizontal business combination?
vii. What is a holding company
viii. Explain limited liability.
ix. What do mean by life insurance?
x. Define marketing mix.

Q.3. Answer the following long questions. (3x10=30)

i. Define sole proprietorship. What are the characteristics of sole proprietorship?
ii. What are the advantages and disadvantages of a cooperative society?
iii. Explain winding up of a company under the supervision of court.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Biology – I
Course Code: BIO-111 / BIO-12116 Part – I (Compulsory) Time: 15 Min. Marks: 10

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This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Molecules which play the key role in the transfer of genetic information during protein synthesis are ----------.
   A) DNA B) RNA
   C) Nucleic Acid D) Lipids
2. Separation of homologous chromosomes occurs during ----------.
   A) Prophase B) Metaphase
   C) Anaphase D) Telophase
3. Genomes of viruses are ----------.
   A) DNA B) RNA
   C) either single stranded or double stranded RNA or DNA
   D) all of the above
4. Chromosomes duplicate during the ---------- of cell division.
   A) G1 phase B) G2 phase
   C) G0 phase D) S phase
5. Name the RNA molecules which are used to carry genetic information copied from DNA?
   A) tRNA B) mRNA
   C) rRNA D) snRNA
6. The enzyme which is used to join the DNA nucleotides is called ----------.
   A) DNA-ligase B) DNA-helicase
   C) DNA-plymerase D) Topoisomerase
7. Chitin is the prominent structural molecule present in the cell wall of ----------.
   A) Plant B) Animal
   C) Bacteria D) Fungi
8. The Protein coat of virus is called as ----------.
   (a). nuceid (b). capsid
   (c). capsomere (d). Outer envelope
9. The bond between Nucleotides of DNA is ----------.
   A) Peptide bond B) Hydrogen bond
   C) Phosphodiester bond D) Glycosidic bond
10. Beta pleated sheets are present in which structure of proteins?
   A) Tertiary B) Primary
   C) Secondary D) Quaternary

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Biology -I
Course Code: BIO-111 / BIO-12116 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2: Give brief answers of following questions. (10 x 2)

1. What are Plasmids? What is their role in genetic engineering?
2. What are Bacteriophages?
3. How Law of Independent assortment is different from Law of segregation?
4. What are Prions and Viruses?
5. What do you know about crossing over?
6. Give different types of chromosomes on the basis of Centromere.
7. What are amphibious plants? Write down their main characteristics.
8. Differentiate between gene and allele?
9. Define law of thermodynamics with respect to metabolism?
10. Differentiate "autotrophs and heterotrophs".

SECTION: III

Q. No. 3: How Proteins are formed? Explain the Process. (10)

Q. No. 4: Describe the composition of DNA with the help of diagram. (5)

Q. No. 5: Enlist the differences between Prokaryotes and Eukaryotes with examples (5)

Q. No. 6: Describe the stages of Meiosis with the help of diagram and explain the significance of meiosis in life (10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Chemistry-II (Inorganic Chemistry)

Course Code: CHEM-103, CHM-12304 Part–I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Which of the following shows trigonal geometry
   a. BF_3 b. NH_3 c. PCl_3 d. IF_3
2. In an octahedral structure, the pair of d orbitals involved in d^2sp^3 hybridization is
   a. $d_{x^2-y^2}$, d_{z^2} b. d_{xz}, $d_{x^2-y^2}$ c. d_{z^2}, d_{xz} d. d_{xy}, d_{yz}
3. According to LUX-FLOOD acid-base concept, base is a
   (a) OH^{-1} ion donor (b) electron pair donor (c) oxide ion donor (d) all of these
4. The structure of $[Cu(H_2O)_4]^{2+}$ is
   a. Square planar b. Tetrahedral c. Distorted octahedral d. Octahedral
5. The % age of U^{235} in naturally occurring uranium is,
   a. 0.50% b. 0.71%
   c. 2.0% d. 5.0%
6. EAN of Cr (24) is
   a. 32 b. 36 c. 86 d. 54
7. Which of the following anion has higher polarizability
   (a) F^- (b) Cl^- (c) Br^- (d) I^-
8. According to VSEPR theory, the geometry of I_3^- is;
   a. Trigonal Planar b. Tetrahedral
   c. Pyramidal d. Linear
9. Which of the following triads is an example of transition elements?
   a. Ba, Sr, Ca b. Rb, Cs, Fr c. Sc, Ti, V d. F, Cl, Br
10. The most common oxidation state of lanthanides is
   a. +4 b. +3 c. +6 d. +2

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Chemistry-II (Inorganic Chemistry)

Course Code: CHEM-103, CHM-12304 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 Attempt all short questions **(2× 10 = 20)**

i. Draw molecular orbital energy level diagram for N_2 molecule.

ii. Define the term electronegativity.

iii. What is mass defect?

iv. How does CFT is superior to VBT?

v. Phenolphthalein is a weak acid. Justify the statement

vi. What is leveling effect?

vii. Define EAN rule with example.

viii. Differentiate between hard and soft base according to HSAB concept.

ix. Justify that emission of a α-particles by a radioactive isotope shifts its two positions to the left in the periodic table.

x. Differentiate between inner and outer transition elements

Note: Attempt all questions.

Q.3 What is diagonal relationship? Elaborate this concept with few examples **(10)**

Q.4 What is isomerism? Discuss different types of isomerism in coordination compounds **(10)**

Q 5 **a)** Describe various uses of radioactive isotopes. **(05)**

b) Write down salient features of Valence Shell Electron Pair repulsion theory. **(05)**

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B.S. 4 Years Program / Second Semester – 2019

Roll No. in Fig. .....

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Paper: Biochemistry

Course Code: CHEM-121 Part – I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. Disaccharide that occurs in the milk of all animals is

a) Glucose b) sucrose c) celloluse d) glycogen

ii. Which one of the following is oligosaccharide

a) Glucose b) sucrose c) celloluse d) glycogen

iii. The molecular formula of a disaccharide is

a) $C_{18}H_{32}O_{16}$ b) $C_{12}H_{22}O_{11}$

c) $C_6H_{10}O_5$ d) $C_6H_{12}O_6$

iv. Which one of the structures of proteins indicates the three dimensional twisting and folding of the peptide chain?

a) Primary structure b) secondary structure

c) Tertiary structure d) quaternary structure

v. An enzyme that brings about the hydrolysis of triglycerides (fats) is called

a) lypase b) maltose

c) zymase d) urease

vi. Ascorbic acid is a chemical name of

a) Vitamin A b) Vitamin B_6

c) Vitamin C d) Vitamin D

vii. Enzymes are

a) oils b) fatty acids

c) minerals d) Proteins

viii. The disaccharide present in milk is

a) maltose b) lactose

c) adipic acid d) starch

ix. The monomeric units of starch is

a) mannose b) glucose

c) fructose d) glucose and fructose

x. The no of ATP molecules formed during glycolysis

a) 18 b) 8

c) 4 d) 2

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Biochemistry

Course Code: CHEM-121 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers to the following questions. (10x2=20)

i. What are oligosaccharides . Give examples
ii. Draw the ring structure of a glucose molecule
iii. What is a glycosidic linkage? Give one example
iv. What is meant by alpha-amino acids
v. What are essential and non – essential amino acids
vi. Define and explain the term reducing and non reducing sugars .
vii. Why are fats considered as high energy compounds ?
viii. Write down physical properties of lipids .
ix. What is hardening of oils ? Give example
x. What is a peptide linkage . Give one example.

Q No 3: Explain role of following in aerobic repiration (5+5)

a) Oxygen
b) NAD+ and FAD

Q No 4 : Discuss classification of proteins on the basis of their structure. (10)

Q No 5 : Discuss structure and biochemical role of polysaccharides (10)

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B.S. 4 Years Program / Second Semester – 2019

Paper: Financial Accounting-II
Course Code: COMM-102 / COM-12355 Part–I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. Which of the following inventory valuation method gives lower value of inventory in an inflationary economy?
a) FIFO b) LIFO
c) Weighted Average d) None of these

ii. Which of the following is not a financial asset.
a) Cash b) Marketable Securities
c) Accounts Receivable d) Inventory

iii. Goods-in-transit are treated as a part of inventory of a seller, when the sale transaction include condition ----------in sales dead.
a) FOB shipment b) FOB destination
c) Both a & b d) None of these

iv. Unrealized holding loss is reported in ----------.
a) Owners' Equity section b) Income Statement
c) Retained Earnings d) None of these

v. Which of the following ledger provides detailed information about the inventory?
a) Inventory subsidiary's ledger b) Purchase book
c) Purchase Account d) Both b & c

vi. Which of the following is not included in the debit memorandum sent by a banker to an account holder?
a) Interest expense b) Collection charges
c) Dividend collected d) Discounting charges

vii. Cheques deposited but not appeared in the bank statement are called----------.
a) Un-presented cheques b) Un-credited cheques
c) Outstanding cheques d) None of these

viii. Which of the following expenditure is not treated as a part of cost of a machine?
a) Sales Tax b) Transportation charges
c) Installation Charges d) Repair and maintenance charges for damages

ix. Which of the following is not an intangible asset?
a) Patent b) Copy right
c) Trade mark d) Receivables

x. Which of the following is not a current liability?
a) Trade payable b) Outstanding installment of a long term loan
c) Note payable d) Bonds Payable

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Financial Accounting-II

Course Code: COMM-102 / COM-12355 Part–II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No.	Question	Marks
2	**Give short answers of the following questions.** 1) Define cash and cash equivalents. 2) Briefly describe the cost flow assumptions. 3) Describe the aging analysis of accounts receivable. 4) Illustrate the difference in reporting of realized gain on sale of marketable securities vs unrealized holding gain on marketable securities. 5) Describe the difference between periodic and perpetual inventory accounting system. 6) Describe the difference between current and non-current liabilities. 7) List the methods for the measurement of goodwill of a partnership firm. 8) Describe the reporting of employees' pension related liabilities in accounting? 9) Describe the difference between depreciation and amortization? 10) Define the plant assets as per IAS16.	20
3	Nazir, Bashir and Munir are partners in the NBM firm and sharing profit and loss in the ratio of 3:3:2. The accounts of NBM are closed on December 31 each year. They have taken out a joint life policy for Rs. 8,00,000, the annual premium of Rs. 24,000 being charged to profit and loss account. The Partnership deed provides that on the death of any partner the goodwill of the firm is to be valued at two years' purchase of the average of the three immediately preceding years' profit. The deceased partner share will be credited to his capital account. The deceased partner is also entitled to interest on capital 6% p.a. as well as to a share of profit from the date of last balance sheet to the date of death based on the average of the three immediately preceding years' profits. Munir died on July 1, 2018, when his capital stood at Rs. 5,00,000 and his drawing at Rs. 70,000. The trading results of the last three preceding years were as follows: Year — Profit (Loss) in Rs. 2015 — 4,00,000 2016 — (1,00,000) 2017 — 3,00,000 **Required:** Make journal entries and draw up Munir's capital account showing the total amount paid to his executors in settlement of his account.	15
4	Ali Construction Firm purchased a second-hand truck for Rs.5,00,000 on 1st January, 2015 and spent Rs. 100,000 on its overhauling. Depreciation is written-off at 20 % p.a. on the reducing balance .On July 1, 2017 the old truck was exchanged with a new truck. The purchase price of the new truck was Rs. 8,00,000 and vendor allowed trade-in allowance Rs.3,00,000 for the old truck. Depreciation rate for the new truck is 20% p.a. on the reducing balance. **Required:** Prepare the Truck Account from 2015 to 2018 assuming that accounts are closed on 31st December every year.	15

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Computer -II
Course Code: COMP-103 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. **Which of the following is not an Aggregate function?**
   A. Min
   B. Max
   C. Select
   D. Avg
2. **The attribute that can be divided into other attributes is called**
   A. Simple Attribute
   B. Composite Attribute
   C. Multi-valued Attribute
   D. Derived Attribute
3. **In an Entity-Relationship Diagram "Ellipses" represents**
   A. Attributes
   B. Weak entity set
   C. Relationship sets
   D. Multi-valued attributes
4. **In an Entity-Relationship Diagram "Diamonds" represents**
   A. Attributes
   B. Multi-valued attributes
   C. Weak entity set
   D. Relationship sets
5. **What is ACID properties of Transactions?**
   A. Atomicity, Consistency, Isolation, Database
   B. Atomicity, Consistency, Isolation, Durability
   C. Atomicity, Consistency, Inconsistent, Durability
   D. Automatically, Concurrency, Isolation, Durability
6. **If every non-key attribute is functionally dependent on the primary key, the relation will be in**
   A. First Normal Form
   B. Second Normal Form
   C. Third Normal Form
   D. Fourth Formal Form

P.T.O.

7. **Database locking concept is used to solve the problem of**
   A. Lost Update
   B. Uncommitted Dependency
   C. Inconsistent Data
   D. All of the above
8. **UML stands for**
   A. Universal Modeling Language
   B. Unified Modeling Language
   C. United Modeling Language
   D. Uni Modeling Language
9. **Data Manipulation Language (DML) is not to**
   A. Create information table in the Database
   B. Insertion of new information into the Database
   C. Deletion of information in the Database
   D. Modification of information in the Database
10. **Which of the following is true regarding Referential Integrity?**
   A. Every primary-key value must match a primary-key value in an associated table
   B. Every primary-key value must match a foreign-key value in an associated table
   C. Every foreign-key value must match a primary-key value in an associated table
   D. Every foreign-key value must match a foreign-key value in an associated table

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Computer -II
Course Code: COMP-103 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answer of the following questions **(10x2=20)**

1)What do you understand by 'Database'?
2)Define DBMS?
3)Define RDBMS?
4)Enlist the advantages of DBMS?
5)What do you understand by Data Redundancy?
6) What do you understand by Data Independence? What are its two types?
7) Explain Normalization and De-Normalization?
8) How many SQL statements are used? Define them.?
9) What is BCNF?
10) What is SQL?

Subjective Type

Marks(3*10=30)

Q3. What is ERD? Draw and explain ERD for Bank Management System?

Q4. Discuss 3- schema architecture in detail?

Q5. Discuss database development process in detail?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Computers (Revised)
Course Code: COMP-121 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. A graphic tablet is commonly activated by:
   a) Finger b) Joystick
   c) Stylus d) Trackball

ii. Laser Printer is an example of:
   a) Non impact b) Impact
   c) Inkjet d) Dot Matrix

iii. The top most layer of OSI model is:
   a) Network b) Session
   c) Transport d) Presentation

iv. Which of the folloiwng is NOT a category of network?
   a) LAN b) MAN
   c) WAN d) NAN

v. Analog signal is measured in:
   a) Volt b) Hertz
   c) WATTS d) Digits

vi. Each location in primary storage is assigned a unique:
   a) Data b) Field
   c) Name d) Address

vii. All are types of Memory EXCEPT.
   a) DRAM b) SRAM
   c) FRAM d) ROM

viii. Which one is faster?
   a) RAM b) Cache
   c) Register d) Hard Disk

ix. Another word for pointer:
   a) Cursor b) Pixel
   c) Mouse d) None

x. The brain of any computer system is:
   a) ALU b) Memory
   c) CPU d) Control Unit

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Computers (Revised)
Course Code: COMP-121 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions. (10x2=20)

i. RAM is called volatile memory. Justify.
ii. State the use of Copy Paste Function in MS Word.
iii. Differentiate between INTERNET and EXTRANET.
iv. What are Nested Functions in Excel?
v. What does mean by Device Driver Software?
vi. Differentiate between Excel Work Book and Work Sheet.
vii. What is Web Browser?
viii. Differentiate between compiler and interpreter.
ix. What is EEPROM?
x. Explain Modes of Data Transmission?

Q.3. Answer the following long questions. (3x10=30)

i. Define storage devices, explaining all major types of storage devices.
ii. Explain how you create and manipulate charts in MS Excel. Also explain Slide Animations and Animation Effects of MS PowerPoint?
iii. What is Computer Memory? Explain basic Architecture of Computer System.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Literature-II (Poetry and One Act Plays)
Course Code: ENG-103 / ENG-12336 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Question No 1. Answer the following. **(10x1)**

i) _____is a lyric poem, typically one in the form of an address to a particular subject, written in varied or irregular meter.

ii) _____is a poem or song narrating a story in short stanzas.

iii) *The Silken Tent* falls in the category of _____.

iv) *La Belle Dame Sans Mercy* is written by _____.

v) _____is a sonnet written by John Milton in which he reflects on his faith as he is turning blind.

vi) *When I am Dead my Dearest* is a song written by _____.

vii) *Ulysses* is a dramatic monologue written by _____.

viii) Define Elegy.

_____

_____

_____

ix) What are some of the features of Epic?

_____

_____

_____

x) What does the phrase "If Winter Comes, can Spring be far behind" mean?

_____

_____

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Literature-II (Poetry and One Act Plays)
Course Code: ENG-103 / ENG-12336 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question No 2: Give short answers to the following questions. (5x4)

i) Focusing on the imagery used in the poem "*The Silken Tent*", discuss how the poet compares a woman with a tent.

ii) What aspects of Victorian society does the epic poem, "*Rape of the Lock*" throw light on"?

iii) How does Percy B. Shelley address the west wind in his poem, "*Ode to the West Wind*"?

iv) What is the difference between Sonnet and Ballad?

v) What is the significance of the title, "*The Sandbox*"?

Question No 3: Answer the following questions briefly. (10x3)

i) Keeping in mind the salient features of dramatic monologue, evaluate "*My Last Duchess*" giving special emphasis on the style.

ii) Albee portrays elderly neglect in his play "*The Sandbox*" to invoke social reform. Discuss.

iii) Keeping in mind the title of the play, discuss *The Rising of the Moon* as the symbol of the emerging vision of the Irish National independence from the clutch of British Tyranny.

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B.S. 4 Years Program / Second Semester – 2019

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Paper: Introduction to Linguistics-II

Course Code: ENG-104 / ENG-12337 Part–I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

1. --------- phonetics is interested in the movement of various parts of the vocal tract.
   a. Acoustic b. Articulatory c. Auditory
2. The idea that speech comes from the automatic vocal responses to pain, fear, surprise.
   a. The Bow- wow theory b. The pooh-pooh theory c. the ding -dong theory
3. ---------- is a language used for communication by the people having different native language.
   a. Lingua Franca b. Idiolect c. regional dialect
4. ------- is the set of vocabulary items associated with discrete occupational or social groups.
   a. Style b. creole c. Register
5. Special concern of linguistics is to -------- language.
   a. Correct b. Learn c. study
6. Sound units that distinguish words from each other are called ----------.
   a. Syllable b. phoneme c. stress
7. Modern linguistic rules are ---------- in nature.
   a. Descriptive b. prescriptive c. Narrative
8. --------- is the study of sentence structure.
   a. Semantics b. Syntax c. pragmatics
9. --------- are words that sound alike but possess different meaning .
   a. Hyponym b. Antonym c. Homonym
10. ---------- is the study of meaning and formalizing it into a logical form .
    a. Semantics b. Phonetics c. phonology

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Linguistics-II

Course Code: ENG-104 / ENG-12337 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q 2. Answer the following short questions. (4X5=20)

1. Descriptive & prescriptive approach in linguistics.
2. Competence & performance relations.
3. Syntagmatic & paradigmatic.
4. Psycholinguistics & Sociolinguistics
5. Language acquisition device (LAD) & universal grammar

Q 3. Answer the following long questions: 3X10=30

1. Discuss 'Generativism' in detail?
2. Discuss the functions of language with reference to FUNCTIONALISM?
3. Define discourse analysis? Also discuss cohesion and coherence?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Communication Skills
Course Code: ENG-112 A **Part – I (Compulsory)** **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Choose the correction option only. **(10x1=10)**

i. A topic sentence is made up of _____
   a) Supporting details b) Topic and the controlling idea
   c) Examples d) Concluding line

ii. In impromptu presentation is a _____
   a) Prepared presentation b) Reading presentation
   c) Memorized presentation d) Unprepared presentation.

iii. A cover letter is attached along _____
   a) A follow up letter b) A CV
   c) A personal letter d) None of the above

iv. Subject in a letter states _____
   a) The purpose or topic of the letter b) The greeting
   c) Inside address d) Date line

v. Before taking minutes the concerned person should _____
   a) Mark the attendance of all attendees
   b) Should not mark the attendance
   c) None of the above
   d) Take resumes from everyone

vi. Inside Address is _____
   a) The writers own address b) The address of the receiver
   c) The salutation d) The subject

vii. A resume is _____
   a) A list of your personal details, education, skills and experience
   b) A letter that highlights briefly your skills
   c) States your skills only
   d) States education only

viii. Taking minutes means _____
   a) Taking down important points in a meeting
   b) Report c) Resume
   d) Short letter to convey information within an organization

ix. Non- verbal communication means _____
   a) Using spoken words b) Using written words
   c) Using body movements, eye movements.
   d) voice

x. A memo is _____
   a) A short note to convey information within an organization
   b) A resume c) A cover letter
   d) A follow up letter

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Communication Skills
Course Code: ENG-112 A Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions: (4x5=20)

i. What are the different purposes of oral presentation.

ii. What are the different parts of a memo?

iii. What is the difference between thesis statement and a topic sentence?

iv. Explain the parts of a cover letter?

Q.3. Answer the following questions: (3x10=30)

i. Write a paragraph on anyone of the following topic:
a) Eid Festivals b) Child Labor Games

ii. Write a summary of the following paragraph.

Education brings a lot of benefits to society. Educated people can easily understand their rights and duties in society, and can act for the good of others and of themselves. For example, a well-educated person will not like to break a rule of traffic when he reads it on a road crossing while driving his vehicle. He will realize that If he breaks the rule knowing it to be very much there, others looking at him would also like to break it, and it might result in dangerous accidents on roads. Educated person can follow the programs of political parties in general elections and can vote wisely and properly. They cannot easily be deceived by clever politicians at all. They vote as they think in the best interest of the country and the nation, and thus they elect the most suitable candidates for their assemblies. Educated people are better workers than illiterate people in factories and on farms. They can learn easily how to work new machines according to new methods in factories and farms. Thus they can easily increase the production of things and daily use and of good grains. We should therefore, try to educate our people as early as possible. It would be very good indeed to have adult education fit in our cities, towns, villages. If our resources permit, we may also introduce compulsory universal education up to Matric.

iii. Write a letter of application to your teacher requesting them to arrange a resit exam for you. Give reasons why you missed the exam.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: English -II (Academic Reading and Writing)
Course Code: ENG-112 / ENG-12102 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1.(a) Tick the appropriate option only. (4x1=4)

i. Apocalypse means:
i) end times ii) discovery iii) holocaust iv) eclipse

ii. Monarchy means:
i) church ii) ruling class iii) money iv) kingship

iii. Bewilder
i) wilderness ii) confuse iii) wasted iv) colourful

iv. Precipitate means:
i) vertical cliff ii) hasten iii) participate iv) discord

(b) Fill in the blanks with appropriate word/word form/phrasal verb. (6x1=6)

i. Macro is ---------- (go) establish a new store in Karachi.
ii. Well, I'd better hurry. My lesson will ---------- (start) in five minutes.
iii. She's smart but she ---------- (not) have fair colour.
iv. The traffic warden told me ---------- (not/park) the car on the road.
v. Shakespeare ---------- (say) that there was no such thing as society.
vi. Tom ---------- (decide/ have party) for all his friends.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: English -II (Academic Reading and Writing)
Course Code: ENG-112 / ENG-12102 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Section-I

Q-2 Give Short answers to the following questions: 10x 2 (20)

i) Summarize the details of autobiographical article of Martin Amis 'Emergency Landing' of his 737 with special reference to his style of writing (Ref: Unit:13)

ii) What are the main effects of factory farming on animal health with reference to 'Brave New Farm' and battle to control bacteria build-up (passage B Practice Unit 3)

Section-II

Q-3 Answer the following questions briefly. 10 x 3 (30)

i) How to remove hurdles in improving reading as an academic skill.

ii) Briefly explain structure of a paragraph and method to develop a good paragraph.

iii) Write a paragraph on any one of the given topics:
Money Devaluation & Economy
Sports & Education
Causes of Price-Hike (Word Limit= upto120 words)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Child Development
Course Code: ED-306 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. **(10x1=10)**

i. Process of restoring or providing between what was expected and what was actually experienced is called
a) Schema b) Accommodation c) Assimilation d) Equilibration

ii. The existing schema is altered to accommodate a new experience is called
a) Schema b) Accommodation c) Assimilation d) Equilibration

iii. An organized pattern of thoughts that is developed as a result of interaction with objects is called
a) Schema b) Accommodation c) Assimilation d) Equilibration

iv. The perception of new experience is adopted to fit with the existing schema is called
a) Schema b) Accommodation c) Assimilation d) Equilibration

v. Infants see the world as a safe place and other people as helpful and dependable it is termed as
a) autonomy b) trust c) mistrust d) hesitation

vi. Child able to exercise some degree of choice and independence is developed in social development, it is termed as
a) autonomy b) trust c) mistrust d) hesitation

vii. Child's feelings of self-doubt, shame in dealing with others is developed in social development, it is termed as
a) autonomy b) trust c) mistrust d) hesitation

viii. Fear and suspicion toward the world and everyone in it others is developed in social development, it is termed as
a) autonomy b) trust c) mistrust d) hesitation

ix. Inconsistent care, little love and attention for child develops the trait in social development, is termed as
a) autonomy b) trust c) mistrust d) hesitation

x. Holding ,cuddling, playing ,talking to them and love them develops trait in social development, it is termed as
a) autonomy b) trust c) mistrust d) hesitation

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Child Development
Course Code: EDU-306 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answer of the following questions (5x4=20)

i. Write four principles of human development

ii. Write four factors affecting human development

iii. Write four characteristics of physical development at adolescence level.

iv. What are four factors affecting Learning

v. Write four types of individual differences

Q.3. Write answer of the following questions in detail. (3x10=30)

1. Describe the role of teacher in social development of student in classroom
2. What are the emotional characteristics of learners.
3. How a teacher develops academic ability grouping in classroom.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.:

Paper: Teaching Profession

Course Code: ED-325 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

(1x10=10) سوال نمبر 1: درست جواب کا انتخاب کریں۔

i) Profession means:
(a) Duty (b) Job
(c) Service (d) Work

(i) پیشہ کا مطلب ہے
(الف) فرض (ب) ملازمت (ج) سروس (د) کام

ii) Teaching is profession due to teachers:
(a) Love of Children (b) Mastery over Pedagogical Aspects
(c) Love for knowledge (d) Observance of Professional Ethics

(ii) تدریس ایک پیشہ ہے اساتذہ کی۔۔۔۔۔۔۔ کی وجہ سے
(الف) بچوں سے محبت (ب) فن تدریس پر مہارت
(ج) علم سے محبت (د) پیشہ وارانہ اخلاقیات کی پابندی

iii) Teachers possess professional dispositions regarding:
(a) Collaboration & Communication (b) Learning & Motivation
(c) Expectations (d) Human Development

(iii) اساتذہ پیشہ وارانہ فطرت رکھتے ہیں۔۔۔۔۔۔۔۔۔۔ کے بارے میں
(الف) اشتراک و مواصلات (ب) تعلیم و تحریک (ج) توقعات (د) انسانی ترقی

iv) A teacher's first duty is to his:
(a) Institution (b) Students
(c) Subject Area (d) Principal

(iv) اساتذہ کا اولین فریضہ اس کا/اس کے۔۔۔۔۔۔۔۔۔۔ ہیں۔
(الف) ادارہ (ب) طلبہ (ج) مضمون (د) سربراہ

v) A teaching professional should also be expert in:
(a) Administration (b) Teaching
(c) Subject knowledge (d) Social contacts

(v) تدریسی پیشہ کو۔۔۔۔۔۔۔۔۔۔ میں بھی مہارت ہونی چاہیے:
(الف) انتظام و انصرام (ب) تدریس (ج) مضمون کا علم (د) معاشرتی تعلقات

vi) The basic role of a teacher is:
(a) Teaching contents (b) Outlining rules
(c) Guiding Students (d) Conducting Activities

(vi) ایک استاد کا بنیادی کردار ہے:
(الف) تدریس (ب) اصول سازی (ج) طلبہ کی راہنمائی (د) سرگرمیوں کا انعقاد

P.T.O.

vii) In teaching if nothing has been learnt, nothing has been:

(a) Studies (b) Taught (c) Examined (d) Observed

(vii) تدریس میں اگر کچھ نہیں سیکھا، تو اس کا مطلب ہے کچھ نہیں۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔:

(الف) پڑھا (ب) پڑھایا (ج) معائنہ کیا (د) جائزہ لیا

viii) Which of the following is not concern with the code of ethics for the teacher?

(a) Justice (b) Truthfulness

(c) Favoritism (d) Honesty

(viii) استاد کے پیشہ وارانہ اخلاقیات میں شامل نہیں ہے:

(الف) انصاف (ب) سچائی (ج) جانبداری (د) ایمانداری

ix) Among the stakeholders of the teaching profession the client is:

(a) Teacher (b) Student (c) Principal (d) Parents

(ix) پیشہ تدریس کے اسٹیک ہولڈرز کے درمیان۔۔۔۔۔۔۔۔ایک خریدار / موکل ہے:

(الف) استاد (ب) طالب علم (ج) سربراہ (د) والدین

x) Teachers demonstrate knowledge and understanding of the subject matter that they plan to teach in terms of:

(a) Content Structure (b) Content Pedagogy

(c) Diversity of Learners (d) Evaluation and Assessment

(x) اساتذہ مضمون کے مواد کے علم و تفہیم کا مظاہرہ کرتے ہیں کہ وہ۔۔۔۔۔۔۔۔کے لیے منصوبہ بنا رہے ہیں:

(الف) مضمون کی ساخت (ب) مضمون کو پڑھانے کے طریقے (ج) جداگانہ متعلمین (د) معائنہ و تشخیص

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Teaching Profession
Course Code: ED-325 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with Short Answers **(5x4=20)**

سوال نمبر2: سوالات کے مختصر جوابات تحریر کریں۔

i. How teaching can be more effective?

i. تدریس کو کس طرح سے موثر بنایا جا سکتا ہے؟

ii. Difference between ideal and effective teachers?

ii. مثالی اور موثر استاد میں کیا فرق ہے؟

iii. Need of training in teaching profession, Explain.

iii. پیشہ تدریس میں تربیت کیوں ضروری ہے؟

iv. Elaborate objectives of In-service training for teachers.

iv. ملازمت کے دوران اساتذہ کی تربیت کے مقاصد بیان کریں۔

v. Discuss teaching as a science or art.

v. تدریس سائنس یا آرٹ؟ بحث کریں۔

Q.3. Questions with Brief Answers **(30)**

i. Explain the professional problems of teachers in Pakistan, also suggest suitable solutions. (3+2)

i. پاکستان میں اساتذہ کو درپیش پیشہ وارانہ مسائل کی وضاحت کریں نیز ان مسائل کے حل کی تجویز پیش کریں۔

ii. Critically analyze educational policies of Pakistan regarding teaching profession (5)

ii. پیشہ تدریس کے حوالے سے پاکستان کی قومی تعلیمی پالیسیوں کا تنقیدی جائزہ لیں۔

iii. What should be the objectives of professional teachers' organizations?. (4)

iii. تربیت اساتذہ کے اداروں کے مقاصد کیا ہونے چاہئیں؟

iv. What should be the professional characteristics of teacher? (4)

iv. استاد کی پیشہ وارانہ خصوصیات بیان کریں۔

v. Why teaching is mother of all professions? (4)

v. تدریس کو تمام پیشوں کی ماں کیوں کہا جاتا ہے؟

vi. Why professional codes of ethics are important for teachers? (4)

vi. اساتذہ کے لیے پیشہ وارانہ ضابطہ اخلاق کیوں ضروری ہیں؟

vii. Behavioral Approach for teacher preparation, Discuss. (4)

vii. اساتذہ کو پیشہ وارانہ تیار کرنے کے لیے کرداری نظریہ کی وضاحت کریں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Art, Crafts and Calligraphy
Course Code: EDU-106 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
Roll No. in Words. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. **(10x1=10)**

1. Cool colors are:
   (a) Blue Green and Purple (b) Blue, Orange
   (c) Red, Orange (d) white, Black

2. Art and crafts teacher should be:
   (a) Facilitator (b) Motivator
   (c) Instructor (d) All of these

3. Red and Blue makes Purple:
   (a) True (b) False
   (c) Undefined (d) None of the above

4. Circle Square oval and rectangles are:
   (a) Shapes (b) Color
   (c) Line (d) None of the above

5. The Primary colors are
   (a) The Colors children learn in primary school
   (b) Red-Blue-Yellow
   (c) Blue-Red-Green
   (d) The eight colors in the box of crayons

6. Art teacher should explain the components of his/her topic through:
   (a) Demonstration (b) Demography
   (c) Discussion (d) Lecture

7. Zig Zag is the example of:
   (a) Line (b) Rectangle
   (c) Oval (d) Shape

8. Landscape is a picture of:
   (a) The landscape (b) Ground
   (c) Building (d) Person

9. A plan for organizing color is called.
   (a) Portrait (b) Composition
   (c) Color Scheme (d) Still life

10. A major mode of art and craft is:
    (a) Clay Modeling (b) Landscaping
    (c) Calligraphy (d) Recycling

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Art, Crafts and Calligraphy
Course Code: EDU-106 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers. **(2x10=20)**

i. What do you mean by recycling in Art and Crafts?

ii. What is the difference between painting, still life and landscape?

Q.3. Give brief answers. **(2x15=30)**

i. How can one establish effective criteria for assessment in Art, Crafts and calligraphy?

ii. What are children's development stages in Art?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.:

Paper: Classroom Management

Course Code: EDU-107 Part – I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. (10x1=10)

i) Creating a happy and productive learning environment so all students can learn is called_____.

a. Classroom leadership
b. Classroom management
c. Classroom learning
d. Classroom evaluation

ii) _____ can be enhanced by the teachers through effective classroom management.

a. Students beliefs in themselves
b. Students willingness to follow classroom rules and procedures
c. Students interest in pleasing the teacher
d. Students ability to fit in with peers in the classroom setting

iii) The seating arrangement in a classroom can influence student's_____.

a. Wisdom
b. Understanding of lesson
c. Behavior patterns
d. Control on other students

iv) A teacher is a _____ in the constructivist view of classroom management.

a. Servant
b. Facilitator
c. Employee
d. Dictator

v) Which of the following is the pre-requisite for a good teacher?

a. Classroom management skills
b. Organizational management skills
c. School management skills
d. Conflict management skills

vi) Which of the following method a teacher may use if a student disrupts him in class during the lesson?

a. Have a private discussion with student
b. Stop teaching and punish him
c. Cue the student and punish him
d. Call the parents of the student

vii) Which of the following measure(s) a teacher may take for effective classroom management.

a. Manage behavioral problems
b. Explain rules and procedures of the classroom clearly
c. Avoid corporal punishment
d. All of the above

viii) Which of the following is the most readily available reinforcement to a teacher in the classroom?

a. Homework
b. Exploitation
c. Discipline
d. Praise

ix) Awarding grades, ribbons, or certificates to the students on their performances are example of _____ reinforcers.

a. Token
b. Psychological
c. Social
d. Activity

x) Which of the following is/are the best strategy/strategies for minimizing behavioral problems in the classroom?

a. Using punishment in the classroom
b. Setting clear and simple rules and maintaining them
c. Maintaining good relationships with all students
d. Both b & c

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Classroom Management
Course Code: EDU-107 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write Short Answers to the Following Questions (5 × 4 = 20)

(i) What is the ultimate purpose of effective classroom management?

(ii) Give examples of difficult behaviors which can be tolerated and which require punishment in a classroom.

(iii) Briefly describe the importance of a teacher in classroom management with relevant examples?

(iv) Briefly describe the importance of seating arrangements for learning experiences in a classroom.

(v) Discuss briefly how a teacher can create positive classroom environment for student responsibility.

Subjective Type

Write Answers to the Following Questions (3 × 10 = 30)

Q.3 Suppose you are an elementary school teacher, what incentive systems you will use for classroom setting. Your answer will be evaluated on the basis of relevant examples and arguments.

Q.4. Explain in detail the effect of various kinds of classroom organizations on students' behaviors. Give examples to support your answer.

Q.5. Discuss in detail the use of displays and visuals for enhancing the learning environment in an elementary classroom. Your answer will be evaluated on the basis of relevant examples and arguments.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Method of Teaching Islamic Studies

Course Code: EDU-108 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. **(10x1=10)**

1. خالی جگہ پر کریں

Fill in the blanks

2. منصوبی طریقہ میں ذہنی حل کو------کہتے ہیں

In project method process the mental solution is----- called

3. سب سے اعلیٰ ذہنی سرگرمی--------ہے

Highest mental activity is-------

4. انکشافی طریقہ کا دوسرا نام---------ہے

It is the other name----------inquiry method

5. اصل اشیا کے براہ راست مشاہدے سے-------کی ضرورت نہیں رہتی

-------is not required after direct observation of thing

6-موجودہ دور میں----------معاونات کا استعمال تدریس کا اہم حصہ ہیں

Now a days ---------- Av aids important part of teaching

7-کسی شخصیت کا انٹرویو لینے کے لئے------مرتب کیا جاتا ہے

We arrange ------- for interview of any personality

8)اسلامیات کو---------تک لازمی مضمون کی حیثیت حاصل ہے

Islamic studies is compulsory subject ---------- at level

9)ایک------ --کا کردار بچوں کی اخلاقی تربیت میں اہم ترین کردار ہوتا ہے

--------- play a vital role of character builder in moral development of students

10)امتحانات کی----------اقسام ہیں

10)exams have---------- types

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Method of Teaching Islamic Studies

Course Code: EDU-108 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Question with short Answers : (each question have four marks) 20

1. Describe the importance of examination?

1) امتحانات کی اہمیت بیان کریں؟

2. Write importance about project methods?

2) پراجیکٹ میتھڈ کی اہمیت کو بیان کریں

3. Write Story telling method?

3) کہانی کے ذریعے تدریس کو بیان کریں

4. Write five principals of paper making?

4) پیپر بنانے کے پانچ اصول بیان کریں

5. Qualities of good teacher?

5) استاد کی خوبیاں بیان کریں

Q.3. Question with brief Answer:

مندرجہ ذیل سوالات کے تفصیلی جوابات لکھیں؟

1) تدریس اسلامیات کی ضرورت واہمیت پر نوٹ لکھیں؟10

Write the importance and needs of teaching of Islamic studies?10

6) مباحثی طریقہ تدریس کی اہمیت کو بیان کریں نیز مباحثی طریقہ تدریس کے مثبت اور منفی پہلوؤں پر روشنی ڈالیں؟10

Write the importance of Discussion methods? And describe merits and de merits

7) سبقی منصوبہ بندی کی اہمیت، اور اس کے طریقہ کار پر نوٹ لکھیں؟10

Write the note about the lesson plane and describe Importance and methodology

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Islamic Studies

Course Code: EDE-100 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

(حصہ اول)

Objective Type(معروضی)

نوٹ۔صحیح جوابات پر دائرہ لگائیے۔کاٹ کر لکھا گیا جواب درست تصور نہ کیا جائے گا۔

Q.1. (10x1=10)

۱۔ ظلم عظیم کس کو کہا جاتا ہے؟

(الف)شرک (ب)چوری (ج) جھوٹ (د)منافقت

۲۔حج اسلامی سال کے کس مہینے میں ہوتا ہے؟

(الف) پہلے (ب)تیسرے (ج) ساتویں (د) بارویں

۳۔ ایمان بالقدر..... کا حصہ ہے؟

(الف)توحید (ب)عبادت (ج)عقائد (د)کوئی بھی نہیں

۴۔ جہاد ارکان اسلام کے پانچ میں سے----- نمبر پر ہے؟

(الف پہلے (ب) تیسرے (ج)پانچویں (د) شامل نہیں ہے

۵۔ تکمیل دین والی آیت کس صورت میں شامل ہے؟

(الف) الانبیاء (ب)بقرہ (ج) آل عمران (د)المائدہ

۶۔ حضرت عیسی علیہ السلام نے اپنے بعد آنے والے رسول کا کس نام سے ذکر کیا؟

(الف) احمد ﷺ (ب)محمود ﷺ (ج)حامد ﷺ (د) محمد ﷺ

۷۔زکوۃ مال کا کون ساواں حصہ ہے؟

(الف) اڑھائی فیصد (ب) چالیسواں (ج) الف وب (د) کوئی بھی نہیں

۸۔ زکوۃ کے مصارف کتنے ہیں؟

(الف) آٹھ (ب) نو (ج) دس (د) گیارہ

۹۔ طواف_____میں کیا جاتا ہے؟

(الف) کعبہ (ب) بیت اللہ (ج) مسجد حرام (د) صفاء ومروہ

۱۰ ۔ مریض اور مسافر کو روزہ_____ہے؟

(الف)فرض (ب) واجب (ج) موخر (د) مستحب

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Islamic Studies
Course Code: EDE-100 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

(حصہ دوم)

Short Answers/Questions(مختصر جوابات)

نوٹ۔ نیچے دیئے گئے اجزاء میں سے چار کے جوابات لکھیے۔

Q.2. 5x4=20

(۱) کلمہ طیبہ باترجمہ لکھیں؟

(۲) حج کے مناسک لکھیں؟

(۳) واتقوا یوما لا تجزی نفس عن نفس شیاء ولا یوخذ منھا عدل (اردو ترجمہ کریں)

(۴) من رای منکم منکرا فلیغیرہ بیدہ فان لم یستطع فبلسانہ (اردو ترجمہ کریں)

(۵) کلکم راع وکلکم مسؤل عن رعیتہ۔ (اردو ترجمہ کریں)

(۶) قد افلح المؤمنون الذین ھم فی صلاتھم خاشعون۔ (اردو ترجمہ کریں)

(حصہ سوم)

Subjective Type(انشائیہ)

نوٹ۔ نیچے دیئے گئے اجزاء میں سے دو کے تفصیلاً جوابات لکھیے۔ 15x2=30

Q.3۔ حج کی عالمی اہمیت لکھیں؟

Q.4۔ رسالت محمدیہ ﷺ کی خصوصیات لکھیں؟

Q.5۔ امر بالمعروف ونہی عن المنکر کے آداب لکھیں؟

Q.6۔ ارکان اسلام ہماری معاشرتی زندگی میں کیا تبدیلیاں لاتے ہیں؟

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: English Language-II
Course Code: EDE-104 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
Roll No. in Words. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Question 1: Tick (✓) the right one among the options given below. **(10 Marks)**

1. My best friend lives _____ Mall Road.

(a) in (b) on (c) at (d) of

2. I'll be ready to leave ____ about twenty minutes.

(a) in (b) on (c) at (d) of

3. My fingers were injured therefore my sister had to write the note _____ me.

(a) for (b) with (c) to (d) none of these

4. Who _____ the window?

(a) open (b) opened (c) did opened (d) none of these

5. Is Diana ____

(a) a friend of yours (b) your friend (c) a your friend (d) none of these

6. We met when we _____ in France.

(a) studied (b) were studying (c) had studied (d) had been studying

7. Try ___ be late.

(a) not to (b) to not (c) is to (d) none of these

8. You can't live very long without _____

(a) to eat (b) eating (c) eaten (d) you eat

9. The policeman _____ me not to park there.

(a) asked (b) told (c) said (d) advised

10. There's the man _____ took your coat.

(a) who (b) which (c) whom (d) to

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: English Language-II
Course Code: EDE-104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question 2: Explain in your words **ONE** of the following stanzas with reference to the context.

(10 Marks)

a. But if this century is to be more great
Than those before, her sons must take her so
And we are of her sons, and we must go
With eager hearts to help mould well her fate,
And see that she shall gain such proud estate
And shall on future centuries bestow.

b. Here love ends.
Despair, ambition ends;
All pleasure and all trouble,
Although most sweet or bitter,
Here ends in sleep that is sweeter
Than tasks most noble.

Question 3: Write the critical appreciation of the poem 'ONE ART' (Elizabeth Bishop) by focusing on the elements of humour and satire used by the poet.

OR

Write a detailed summary of the poem 'All The World's A Stage' (William Shakespeare).

(10 Marks)

Question 4: Read the following passage carefully and answer the questions given below it.

(3 x 5 = 15)

An upsurge of new research suggests that animals have a much higher level of brainpower than previously thought. If animals do have intelligence, how do scientists measure it? Before defining animals' intelligence, scientists defined what is not intelligence. *Instinct* is not intelligence. It is a skill programmed into an animal's brain by its genetic heritage. Rote conditioning is also not intelligence. Tricks can be learned by repetition, but no real thinking is involved. *Cuing*, in which animals learn to do or not to do certain things by following outside signals, does not demonstrate intelligence. Scientists believe that insight, the ability to use tools, and communication using human language are all effective measures of the mental ability of animals. When judging animal intelligence, scientists look for insight, which they define as a flash of sudden understanding. When a young gorilla could not reach fruit from a tree, she noticed crates scattered about the lawn near the tree. She piled the crates into a pyramid, then climbed on them to reach her reward. The gorilla's insight allowed her to solve a new problem without trial and error.

The ability to use tools is also an important sign of intelligence. Crows use sticks to pry peanuts out of cracks. The crow exhibits intelligence by showing it has learned what a stick can do. Likewise, otters use rocks to crack open crab shells in order to get at the meat. In a series of complex moves, chimpanzees have been known to use sticks and stalks in order to get at a favorite snack—termites. To make and use a termite tool, a chimp first selects just the right stalk or twig. He trims and shapes the stick, then finds the entrance to a termite mound. While inserting the stick carefully into the entrance, the chimpanzee turns it skilfully

to fit the inner tunnels. The chimp attracts the insects by shaking the twig. Then it pulls the tool out without scraping off any termites. Finally, he uses his lips to skim the termites into his mouth.

Many animals have learned to communicate using human language. Some primates have learned hundreds of words in sign language. One chimp can recognize and correctly use more than 250 abstract symbols on a keyboard. These symbols represent human words. An amazing parrot can distinguish five objects of two different types. He can understand the difference between the number, color, and kind of object. The research on animal intelligence raises important questions. If animals are smarter than once thought, would that change the way humans interact with them? Would humans stop hunting them for sport or survival? Would animals still be used for food, clothing, or medical experimentation? Finding the answer to these tough questions makes a difficult puzzle even for a large-brained, problem-solving species like our own.

1. According to the author, what is not intelligence?
2. What are different signs of animal intelligence?
3. Please explain underlined words/expressions above.
4. Do animals use human language? If yes, in what ways?
5. Can a discovery about animal intelligence bring any change in human behaviour towards animals? Give your opinion.

Question 5: Give a short summary of the above paragraph and also give a suitable title to it.

(10 + 5 = 15)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Art, Craft and Calligraphy
Course Code: EDE-107 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
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Q.1. Choose correct option. Attempt all questions. (1x10=10)

i. What color do you get when you mix red and yellow.
(a) Orange (b) Green (c) Purple (d) Grey

ii. What shape is a person shape?
(a) Circle (b) Oval (c) Rectangle (d) None

iii. Zig zag is a:
(a) Line (b) Rectangle (c) Oval (d) Square

iv. A landscape is a picture of:
(a) Land (b) Ground (c) Building (d) Person

v. Which of the following is not a primer color?
(a) Red (b) Blue (c) Green (d) Black

vi. This is the most basic element of art. It is used to form lots of different things in art. It is the path of a dot through a space.
(a) Texture (b) Space (c) Line (d) Value

vii. This is the lightness or darkness of a color:
(a) Value (b) Texture (c) Color (d) Shape

viii. Heart is an example of what type of balance:
(a) Uneven (b) Radial
(c) Asymmetrical (d) Symmetrical

ix. Shading with dots miss called:
(a) Hatching (b) Cross hatching
(c) Stippling (d) Smudging

x. The art element that refers to the sense of touch is _____.
(a) Value (b) Pattern (c) Texture (d) Shape

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B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Art, Craft and Calligraphy
Course Code: EDE-107 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions. (10x2=20)

i. Describe color wheel

ii. What are warm colors?

iii. What is calligraphy? Name some famous calligraphers?

iv. Explain the characteristics of Indus Civilization.

v. Define Abstract Art. Name some popular Artists of abstract art.

Q.3. Answer the following long questions. (3x10=30)

i. What is design? Explain the principles of Design.

ii. Differentiate between Art and Craft.

iii. How waste material can be utilized creatively?

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B.S. 4 Years Program / Second Semester – 2019

Paper: Content Elective-B-I (History-I)
Course Code: EDE-159 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

نوٹ: اس پرچہ کو اسی سوالیہ پرچہ پر حل کریں۔

Q.1. Choose correct option. Attempt all questions. Cutting is not allowed. (1x10=10)

سوال نمبر 1: درست جواب پر نشان لگائیں۔

i. Hazrat Umar was bon in:
(a) 584 AD (b) 585 AD (c) 586 AD (d) 587 AD

i. حضرت عمرؓ پیدا ہوئے
(الف) 584عیسوی (ب) 585عیسوی (ج) 586عیسوی (د) 587عیسوی

ii. How many Muslims participated in Battle of Uhad?
(a) 3000 (b) 1500 (c) 1200 (d) 1000

ii. جنگ اُحد میں کتنے مسلمانوں نے حصہ لیا؟
(الف) 3000 (ب) 1500 (ج) 1200 (د) 1000

iii. Hazrat Abu Bakar (R.A.) died on:
(a) 632 AD (b) 633 AD (c) 634 AD (d) 635 AD

iii. حضرت ابو بکرؓ کی وفات ہوئی
(الف) 632عیسوی (ب) 633عیسوی (ج) 634عیسوی (د) 635عیسوی

iv. When Hazrat Ali elected Caliph?
(a) 659 AD (b) 657 AD (c) 658 AD (d) 656 AD

iv. حضرت علیؓ خلیفہ کب مقرر ہوئے؟
(الف) 659عیسوی (ب) 657عیسوی (ج) 658عیسوی (د) 656عیسوی

v. Hazrat Ali (R.A.) transferred his capital from Madinah to _____.
(a) Makkah (b) Kofah (c) Taif (d) None

v. حضرت علیؓ نے دارالحکومت مدینہ سے ---------- تبدیل کیا۔
(الف) مکہ (ب) کوفہ (ج) طائف (د) کوئی بھی نہیں

vi. _____ led the army of Battle of Mutah.
(a) Zaid bin Haris (b) Khalid bin Walid
(c) Umer bin Khitab (d) None

vi. ---------- نے جنگ موتہ کی فوج کی قیادت کی۔
(الف) زید بن حارث (ب) خالد بن ولید (ج) عمر بن خطاب (د) کوئی بھی نہیں

vii. "Ghazwa Khandaq" fought in.
(a) 625 AD (b) 626 AD (c) 627 AD (d) 628 AD

vii. "غزوہ خندق" لڑی گئی۔
(الف) 625یسوی (ب) 626عیسوی (ج) 627عیسوی (د) 628عیسوی

P.T.O.

viii. Holy Prophet (PBUH) gave last sermon at _____.

(a) Mina (b) Arafat (c) Mina & Arafat (d) None

viii. حضرت محمد ﷺ نے آخری خطبہ ---------- پر دیا۔

(الف) منیٰ (ب) عرفات (ج) منیٰ اور عرفات (د) کوئی بھی نہیں

ix. Hazrat Abu Bakar (R.A.) appointed _____ to collect all the Quranic text.

(a) Hazrat Zaid (R.A.) (b) Hazrat Ali (R.A.)

(c) Hazrat Bilal (R.A.) (d) Hazrat Abbad (R.A.)

ix. حضرت ابو بکر صدیق رضی اللہ عنہ نے ---------- کو قرآن کا متن اکٹھا کرنے کے لئے مقرر کیا۔

(الف) حضرت زید رضی اللہ عنہ (ب) حضرت علی رضی اللہ عنہ (ج) حضرت بلال رضی اللہ عنہ (د) حضرت عباد رضی اللہ عنہ

x. Who has the longest tenure of Khilafat?

(a) Hazrat Abu Bakar (R.A.) (b) Hazrat Umer (R.A.)

(c) Hazrat Usman (R.A.) (d) Hazrat Ali (R.A.)

x. خلافت کا سب سے لمبا دور کس کا تھا؟

(الف) حضرت ابو بکر رضی اللہ عنہ (ب) حضرت عمر رضی اللہ عنہ (ج) حضرت عثمان رضی اللہ عنہ (د) حضرت علی رضی اللہ عنہ

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Content Elective-B-I (History-I)
Course Code: EDE-159 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions. **(10x2=20)**

سوال نمبر2: درج ذیل کے مختصر جوابات دیں۔ (2x10=20)

i. State the causes of battle of Hunain.

i. جنگِ حنین کی وجوہات تحریر کریں۔

ii. Write about the economic condition of Arabs before the advent of Islam.

ii. عرب میں اسلام کے ظہور سے پہلے، عرب کی مالی حالت تحریر کریں۔

iii. Write the steps taken by Abu Bakar (R.A.) for false prophet.

iii. جھوٹی نبوت کے خلاف حضرت ابو بکر رضی اللہ عنہ نے کیا اقدام کیے؟

iv. What circumstances lead to the treaty of Hudabiyah?

iv. کن حالات کی بنا پر حدیبیہ کا معاہدہ ہوا؟

v. Write the economic reforms introduced by Holy Prophet (PBUH).

v. آپ صلی اللہ علیہ وسلم کے عہد مبارک کی اقتصادی اصلاحات تحریر کریں۔

vi. What were the steps taken by Hazrat Usman (R.A.) to compile Quran?

vi. حضرت عثمان رضی اللہ عنہ نے قرآن اکٹھا کرنے کے لئے کیا اقدام کیے؟

vii. How Hazrat Umer (R.A) accepted Islam?

vii. حضرت عمر رضی اللہ عنہ نے اسلام کیسے قبول کیا؟

viii. What is battle of Jmal?

viii. جنگِ جمل کیا ہے؟

ix. Why Holy Prophet (PBUH) expelled Jews from Madinah?

ix. آپ صلی اللہ علیہ وسلم نے یہودیوں کو مدینہ سے کیوں نکالا؟

x. Describe charges & objections on Hazrat Usman (R.A).

x. حضرت عثمان رضی اللہ عنہ پر لگائے گئے الزامات اور اعتراضات بیان کریں۔

Q.3. Answer the following long questions. **(3x10=30)**

سوال نمبر3: درج ذیل کے تفصیلاً جوابات دیں۔

i. What are the constitutional and administrative reforms introduced by Hazrat Umar (R.A).

i. حضرت عمر رضی اللہ عنہ نے کون سی آئینی اور انتظامی اصلاحات متعارف کرائیں۔

ii. Indicate the policy of Prophet (PBUH) towards Jews of Madinah.

ii. آپ صلی اللہ علیہ وسلم نے مدینہ کے یہودیوں کے لئے جو پالیسی بنائی اس کی نشاندہی کریں۔

iii. Discuss the character and achievements of Hazrat Imam Hassan (R.A) as Caliph.

iii. بطور خلیفہ حضرت امام حسن رضی اللہ عنہ کے کردار اور کارناموں پر روشنی ڈالیئے۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Content Elective B-1 (Urdu)
Course Code: EDE-171 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر2: درج ذیل میں سے کسی ایک اقتباس کی تشریح بحوالہ سیاق وسباق کیجیے۔ نیز سبق کا عنوان اور مصنف کا نام بھی لکھیے۔ (5x4=20)

(الف) اب ڈاک گھر میں ایک صندوق منہ کھلا ہوا دھر دیا ہے جو جائے خط کو اس میں پھینکے اور چلا آئے۔ نہ رسید، نہ مہر، نہ مشاہدہ۔ خدا جانے وہ خط روانہ ہو گا یا نہ ہو گا۔ اگر روانہ بھی ہوا تو وہاں پہنچنے پر ڈاک کے ہرکارے کو نہ انعام کا لالچ نہ سرکار کو، محصول کی طمع۔ نہ دیا ہرکارے کو یا دیا، ہرکارے نے نہ پہنچایا۔ اگر خط نہ پہنچا تو بھیجنے والا کس دستاویز سے دعویٰ کرے گا، مگر ہاں چار آنے دے کر رجسٹری کروائے۔

(ب) ابن الوقت کا پہلے ہی سے انگریزوں کی طرف رجحان تھا۔ اونگھتے کو ٹھلتے کا بہانہ، نویل صاحب کا اشارہ پاتے ہی مقابل کی ایک کرسی پر ڈٹ ہی تو گیا۔ اور یہ عیسائیت کا نہیں بلکہ اس کی انگریزیت کا گویا اصطباغ تھا۔ حسن اتفاق سے اس وقت میز پر کوئی انگریز نہ تھا۔ یوں تو کئی صاحب ان کی کوٹھی میں ٹھہر رہے تھے۔ مگر سب کے سب مل کر شکار کھیلنے چلے گئے تھے اور بہت بہتر ہوا کہ نویل صاحب اکیلے تھے ورنہ آج ابن الوقت کی خوب ہی ہنسی اڑی ہوتی۔ اس نے ناواقفیت کی وجہ سے ایسی بے تمیزیاں کیں کہ وہ نویل صاحب ہی جیسا متین آدمی تھا کہ نہ تو اس کو ہنسی آئی اور نہ اس نے کچھ برا مانا۔ ہنسنے کو کھانا کھلانے والے خدمت گار کیا کم تھے؟

سوال نمبر3: مندرجہ ذیل نثر نگاروں میں سے کسی ایک کے حالات زندگی اور طرزِ تحریر کا جائزہ لیجیے۔ (6+2=8)

(الف) مرزا اسد اللہ غالب (ب) الطاف حسین حالی (ج) سرسید احمد خان

سوال نمبر4: درج ذیل میں سے صرف دو اشعار کی تشریح کیجیے اور شاعر کا نام بھی لکھیے۔ (3+3+1+1=8)

(الف) تھا مستعار حسن سے اس کے جو نور تھا
خورشید میں بھی اس ہی کا ذرہ ظہور تھا

(ب) تو مجھے بھول گیا؟ تو پتہ بتلا دوں
کبھی فتراک میں تیرے کوئی نخچیر بھی تھا

(ج) پکڑے جاتے ہیں فرشتوں کے لکھے پر ناحق
آدمی کوئی ہمارا دم تحریر بھی تھا

(د) جیتے جی کوچہ دلدار سے جایا نہ گیا
اس کی دیوار کا سر سے میرے سایہ نہ گیا

سوال نمبر5: درج ذیل میں سے صرف ایک جزو کی تشریح کیجیے نظم کا عنوان اور شاعر کا نام بھی لکھیے۔ (4+1+1=6)

(الف) گر اس نے دیا غم تو اسی غم میں رہے خوش
اور اس کے جو ماتم دیا ماتم میں رہے خوش
کھانے کو ملا کم تو اسی کم میں رہے خوش
جس طور کہا اس نے اس عالم میں رہے خوش
دکھ درد میں آفات میں جنجال میں خوش ہیں
پورے ہیں وہ مرد جو ہر حال میں خوش ہیں

(ب) مجھ کو لڑنا نہیں منظور یہ کیا کرتے ہو
تیر جوڑے ہیں جو مجھ پر تو خطا کرتے ہو
کیوں نبی زادے پہ غربت میں جفا کرتے ہو
دیکھو اچھا نہیں یہ ظلم، برا کرتے ہو
شمع ایماں ہوں اگر سر میرا کٹ جائے گا
یہ مرقع ابھی اک دم میں الٹ جائے گا

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Content Elective B-1 (Urdu)
Course Code: EDE-171 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
Roll No. in Words. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

نوٹ: اس پرچہ کو اسی سوالیہ پرچہ پر حل کریں۔

سوال نمبر1: مندرجہ ذیل میں سے درست جواب پر درست (✓) کا نشان لگائیں۔ کاٹ کر یا مٹا کر لکھا گیا جواب غلط تصور ہو گا۔ (1x10=10)

1. "عود ہندی" کس کے خطوط کا مجموعہ ہے؟
(الف) مولوی عبدالحق (ب) مرزا اسد اللہ خاں غالب (ج) ڈاکٹر سید عبداللہ (د) شبلی نعمانی

2. مولانا محمد حسین آزاد کا سن پیدائش ہے؟
(الف) 1802ء (ب) 1830ء (ج) 1819ء (د) 1887ء

3. "یادگارِ غالب" کا مصنف ہے۔
(الف) سر سید احمد خان (ب) شبلی نعمانی (ج) الطاف حسین حالی (د) مولوی عبدالحق

4. شبلی نعمانی کہاں پیدا ہوئے؟
(الف) لکھنو (ب) اعظم گڑھ (بندول) (ج) الہ آباد (د) دہلی

5. "شعر العجم" کے مصنف ہیں۔
(الف) مولوی عبدالحق (ب) سر سید احمد خان (ج) شبلی نعمانی (د) مولوی نذیر احمد دہلوی

6. میر احسن کہاں پیدا ہوئے؟
(الف) کلکتہ (ب) آگرہ (ج) دہلی (د) لکھنو

7. "مخمس شبر آشوب" کے شاعر کا نام ہے؟
(الف) میر تقی میر (ب) مرزا غالب (ج) نظیر اکبر آبادی (د) میر انیس

8. خواجہ میر درد کس سن میں پیدا ہوئے؟
(الف) 1702ء (ب) 1719ء (ج) 1785ء (د) 1720ء

9. میر تقی میر کہاں پیدا ہوئے؟
(الف) لکھنو (ب) فیض آباد (ج) الہ آباد (د) آگرہ

10 میر انیس کہاں پیدا ہوئے؟
(الف) لکھنو (ب) فیض آباد (ج) پانی پت (د) آگرہ

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Principles of Macro Economics
Course Code: ECON-102 / ECO-12318 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Explain the following with examples. **(10x2=20)**

سوال نمبر2: مندرجہ ذیل کی مثالوں کے ساتھ وضاحت کریں۔

i. Gross Domestic Product — i. خام ملکی پیداوار

ii. Nominal and Real GDP. — ii. زری اور حقیقی خام ملکی پیداوار

iii. Demand Pull Inflation — iii. طلب کے دباؤ کا افراط زر

iv. Quantity Theory of Money — iv. نظریہ مقدار زر

v. Marginal Propensity to Consume — v. مختتم میلان صرف

vi. Discount Rate — vi. شرح بنک

vii. Balance of Payment — vii. توازن ادائیگی

viii. Indirect Taxes — viii. بالواسطہ ٹیکس

ix. Labor Force — ix. افرادی قوت

x. Functions of Money — x. زر کے فرائض

Answer the following Questions. **(10x3=30)**

مندرجہ ذیل سوالوں کے جواب دیں۔

Q.3. What is national income? How it can be measured?

سوال نمبر3: قومی آمدنی سے کیا مراد ہے؟ اس کی پیمائش کیسے کی جاتی ہے؟

Q.4. What is monetary policy? What are the motives and tools of monetary policy?

سوال نمبر4: زری پالیسی سے کیا مراد ہے؟ اس کے مقاصد اور آلات کون سے ہیں؟

Q.5. Write note on Quantity Theory of Money?

سوال نمبر5: نظریہ مقدار زر پر نوٹ لکھیں؟

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Principles of Macro Economics
Course Code: ECON-102 / ECO-12318 Part–I (Compulsory) Time: 15 Min. Marks: 10

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

سوال نمبر1: درج ذیل میں سے درست جواب کا انتخاب کریں۔

1. The largest part of national income goes to?
   (a) Consumption (b) Government expenditures
   (c) Net Exports (d) Investment

1. قومی آمدنی کا سب سے بڑا حصہ:
   (الف) صرف (ب) حکومتی اخراجات (ج) خالص برآمدات (د) سرمایہ کاری

2. Consumption is a function of:
   (a) Savings (b) Interest rate
   (c) Income (d) Expenditures

2. صرف تفاعل ہے۔
   (الف) بچت (ب) سود (ج) آمدنی (د) اخراجات

3. If money is not used to exchange goods, it is called:
   (a) Currency (b) Barter
   (c) Free Trade (d) Black market

3. اگر زر کی بجائے، اشیاء کا اشیاء سے تبادلہ کیا جائے تو کہلاتا ہے:
   (الف) کرنسی (ب) براہِ راست تبادلہ (ج) آزاد تجارت (د) بلیک مارکیٹنگ

4. Intermediate goods are not included to calculate the final output because"
   (a) They do not have value (b) They have unknown value
   (c) Their value is included in final goods so they are not added to avoid the problem of double counting
   (d) None of the above

4. نیم تیار شدہ اشیاء کا شمار مکمل پیداوار میں نہیں ہوتا کیونکہ:
   (الف) ان کی قدر نہیں ہوتی (ب) ان کی قدر معلوم نہیں ہوتی
   (ج) ان کی قدر مکمل پیداوار میں شامل ہوتی ہے اور دوہری گنتی سے بچنے کے لئے شامل نہیں کیا جاتا
   (د) ان میں سے کوئی نہیں

5. Which of the following is not a function of money?
   (a) Hedge against inflation (b) Medium of exchange
   (c) Unit of account (d) None of these

5. ان میں سے کون سا زر کا عمل نہیں ہے؟
   (الف) Hedge بمقابل افراط زر (ب) میڈیم آف ایکسچینج (ج) یونٹ آف اکاؤنٹ (د) ان میں سے کوئی نہیں

P.T.O.

6. The policy adopted by central bank to control the credit is called?
   (a) Fiscal policy (b) Monetary policy
   (c) Commercial policy (d) Industrial policy

6. مرکزی بینک کی وہ پالیسی جو مقدار زر کو کنٹرول کرنے کے لئے اختیار کی جاتی ہے:

(الف) مالیاتی پالیسی (ب) زری پالیسی (ج) کمرشل پالیسی (د) صنعتی پالیسی

7. Trade balance is _____.
   (a) Imports – Exports (b) Cost – Revenue
   (c) Exports – Imports (d) None of above

7. توازن تجارت----------ہے۔

(الف) درآمدات۔برآمدات (ب) خرچ۔حاصل (ج) برآمدات۔درآمدات (د) ان میں سے کوئی نہیں

8. Which of the following types of unemployment is more problematic?
   (a) Cyclical unemployment (b) Structural unemployment
   (c) Seasonal unemployment (d) Disguised unemployment

8. ان میں سے کون سے بیروزگاری کی قسم زیادہ مسئلہ پیدا کرتی ہے؟

(الف) دائروی بیروزگاری (ب) اداراتی تبدیلی کی بیروزگاری

(ج) موسمیاتی بیروزگاری (د) چھپی ہوئی بیروزگاری

9. The income which a person can use according to its will, is:
   (a) Per capita income (b) Net income
   (c) Personal income (d) Disposable income

9. وہ آمدنی جو آدمی اپنی مرضی سے خرچ کر سکتا ہے:

(الف) فی کس آمدنی (ب) خالص آمدنی (ج) شخصی آمدنی (د) قابل تعریف آمدنی

10. Real GDP = ...
   (a) National GDP/Real GDP (b) Nominal GDP/GDP Deflator
   (c) GDP Deflator/Nominal GDP (d) None of above

10. حقیقی خام ملکی پیداوار:

(الف) زرعی خام ملکی پیداوار / حقیقی خام ملکی پیداوار (ب) زری خام ملکی پیداوار / نفارہ خام ملکی پیداوار

(ج) نفارہ خام ملکی پیداوار / زری خام ملکی پیداوار (د) ان میں سے کوئی نہیں

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Fundamentals of Economics
Course Code: ECON-111 / ECO-12109 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Briefly explain the following concept. (10x2=20)

i. Differentiate between Microeconomics and Macroeconomics.
ii. Explain the profit maximizing principle for a firm.
iii. In cardinal utility approach, explain the saturation point for the consumer.
iv. Define the Law of Equi-Marginal Utility and write down any two assumptions of this Law.
v. Define the Supply and The Law of Supply?
vi. Write any four uses (importance) of study of Economics.
vii. In market structure, differentiate between Imperfect Competition and Perfect Competition.
viii. Define Concepts of NNP (Net National Product), NI (National Income) and PDI (Personal Disposable Income).
ix. Write the tools/instruments of Monetary Policy.
x. Define open market operations with reference to monetary policy.

Answer the following Questions. (10x3=30)

مندرجہ ذیل سوالوں کے جواب دیں۔

Q.3. (a) Define the law of Demand. (01)
(b) Explain the Law of Demand with the help of Table and Diagram. (04)
(c) Explain the rise in Demand and fall in demand. (05)
Q.4. (a) Define different short run cost concepts. (02)
(b) Explain the salient features of short run cost curves (04)
(c) Discuss relationship between average cost (AC) and marginal cost (MC) curves. (04)
Q.5. (a) Write the concepts of inflation and unemployment as problems of Macroeconomics. (04)
(b) Define the Business Cycles. Also explain in detail the phases of business cycle. (06)

سوال نمبر3: (الف) قانونِ طلب کی تعریف کریں۔
(ب) گوشوارہ اور ڈائیگرام کی مدد سے قانونِ طلب کی وضاحت کریں۔
(ج) طلب کا بڑھنا اور طلب کے گرنے کی وضاحت کریں۔
سوال نمبر4: (الف) عرصہ قلیل میں مصارف کے مختلف خطوط کی وضاحت کریں۔
(ب) عرصہ قلیل میں مصارف کے خطوط کی نمایاں خصوصیات بیان کریں۔
(ج) اوسط مصارف (AC) اور مختتم مصارف (MC) کے خطوط کے مابین تعلق / رشتہ کی وضاحت کریں۔
سوال نمبر5: (الف) کلی معاشیات کے اہم مسائل افراطِ زر اور بے روزگاری کے تصور کی وضاحت کریں۔
(ب) تجارتی چکر کی تعریف کریں نیز تجارتی چکر کے مختلف ادوار کو تفصیل سے بیان کریں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Fundamentals of Economics

Course Code: ECON-111 / ECO-12109 Part–I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i: Market value of all final goods and services produced by a nation during a year is definition of;

a) National Income
b) Gross National Product
c) Net National Product
d) consumption

ii: Although people may satisfy their basic needs there is always something more that they want. To what basic economic issue (problem) does this statement refer?

a) exchange
b) income distribution
c) market forces
d) scarcity

iii: What, according to the definition of opportunity cost, is sacrificed when a decision is take?

a) an identical alternative
b) any possible alternative
c) the least valuable alternative
d) the next best alternative

iv: Which of the following is a factor of production?

a) the payment of interest on a bank loan
b) the profit declared by a company in its annual report
c) the skill of the managers of a business
d) none of the three

v: Which statement about fixed costs is correct?

a) they exist only in the long run
b) they include raw material and direct labor costs
c) they increase at the same rate as output
d) they must be paid even if there is no output

P.T.O.

vi: A firm under perfect competition is;

a) price maker
b) price breaker
c) price taker
d) price shaker

vii: According to cardinal utility approach, a consumer will be in equilibrium where;

a) $\frac{MUx}{Px} = \frac{MUy}{Py}$
b) $\frac{MUx}{MUy} = \frac{Py}{Px}$
c) $\frac{MUx}{Py} = \frac{MUy}{Px}$
d) None of the three

viii: When cross elasticity of demand for A and B is positive number, one can conclude that;

a) the goods are cheaper
b) the goods are inferior
c) the goods are substitutes
d) the goods are complements

ix: In monetary policy, open market operation refers to;

a) Buying and selling of foreign currencies
b) Buying and selling of govt. securities
c) To keep banks open 24 hours on a day
d) Buying and selling of goods in free market

x: For international trade when a currency is exchanged for another is called;

a) Bank rate
b) Exchange rate
c) Exchange control
d) Foreign exchange

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Basic Economics-II
Course Code: ECON-123 / ECO-12449 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Explain the following briefly. (Not more than three lines) **5X4=20**

I. Large scale production

II. Law of variable proportion

III. Relation between Average and marginal revenue

IV. TR-TC approach of profit maximization

Q3. What are the advantages of producing at small scale? 10

Q4. Explain the short run equilibrium of the firm under perfect competition. 10

Q5.Explain the equilibrium of the firm for a monopolist firm. 10

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Basic Economics-II
Course Code: ECON-123/ECO-12449 Part–I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

I. Which of the following is not a determinant of demand for good X:
   A) Average income.
   B) Population.
   C) Tastes and preferences.
   D) Price of good X.

II. We get fewer and fewer additional units as we add more and more units of the inputs to production process. We call this fact the:
   A) Law of diminishing marginal utility.
   B) Law of diminishing returns.
   C) Law of supply.
   D) Law of demand.

III. When demand is price-inelastic, a price decrease will result in:
   A) An increase in total cost
   B) An increase in total revenue
   C) A decrease in total cost
   D) A decrease in total revenue

IV. The market structure where no firm have any degree of power is
   A) Perfect competition
   B) Monopoly
   C) Monopolistic competition
   D) All of the above

V. Which of the following costs always increase as output increase?
   A) Average variable cost
   B) Marginal cost
   C) Average fixed cost
   D) Fixed cost

P.T.O.

VI. The total cost (TC) of producing shoes of a shoe factory (Q) is given as: TC = 100 + 10Q. What is the marginal cost?

A) 100
B) 10Q
C) 10
D) 5 + (200/Q)

VII. A profit maximizing monopolist will charge the price:

A) That is equal MR
B) Found on the demand curve at the level of Q where MR=MC
C) Found the AC curve at the level of Q where MR=MC
D) None of the above

VIII. A market is said to be in equilibrium when:

A) Demand equals output
B) There is downward pressure on price
C) The amount consumers wish to buy at the current price equals the amount producers wish to sell at that price
D) All buyers are able to find sellers willing to sell to them at the current price

IX. The difference between the economic and accounting costs of a firm are the:

A) Accountant fees
B) Corporate taxes on profits
C) Sunk costs incurred by the firm
D) Opportunity costs of the factors of production that the firm owns

X. Which of the following is considered a fixed input to production in the short-run?

A) Labor
B) Capital
C) Money
D) Stock

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Economics (Micro) for Commerce

Course Code: ECON-131 / ECO-12320 Part–I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. Microeconomics is related to study of economic theory at
a) An individual level b) At an aggregate level c) The country level
d) the consumer level only e) Any level

ii. Indifference Curves slope negatively because of
a) being convex to origin b) trade off between goods c) intersection with each other.
d) All of the above e) None of the above

iii. We may observe a rise in demand when
a) There is a general rise in income b) Population grows. c) price of the substitute increases.
d) All of the above. e) None of the above

iv. The price elasticity of demand for necessities of life is
a) high b) Unity c) Zero
d) low e) none of the options

v. In a free market, the intersection of demand and supply curves shows
a) Consumer's Equilibrium b) General Equilibrium c) Market Equilibrium
d) Producer's Equilibrium e) None of the above

vi. Production may vary due to change in employment of
a) Land b) labor c) Capital
d) Organization e) all of the above

vii. The characteristics of monopoly include
a) A single firm b) Control over price c) Barriers to entry of firms
d) All of the above e) None of the above

viii. Monopoly
a) is often the market situation b) is always the market situation c) is the only type of market
d) is never the market situation e) None of the above

ix. Factor pricing is a theory related to
a) Price b) Factor inputs c) cost
d) Supply e) None of the options

x. For Minimization the second order derivative must be
a) zero b) positive c) negative
d) maximum e) minimum

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: French Language-II
Course Code: FRN-112

Time: 3 Hrs. Marks: 60

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.1 Write the missing subject pronoun (je, tu, etc..) (10)

1. ____ mange du pain.
2. ____ demandes de l'eau.
3. ____ arrivez de l'école.
4. ____ travaillent bien en classe.
5. ____ désirons de la viande.
6. _____ est dans le jardin.
7. _____ sommes amis.
8. _____ joue avec moi.
9. _____ êtes le professeur.
10. ____ es un élève.

Q. 2 Write the following five numbers in French – in letters (5)

7 49 23 16 11

Q.3 Write the correct form of the verb in brackets (10)

1. Tu (parler) en français à la maison.
2. Je (être) dans ma classe aujourd'hui.
3. La petite fille (jouer) dans le jardin.
4. Vous (manger) votre pomme.
5. Les garçons de cette école (travailler) bien.
6. Nous (avoir) trois stylos et un crayon de couleur.
7. Mes parents (être) très strictes.
8. Vous (avoir) des chaussures bleues.
9. Mon ami et moi (donner) des bonbons aux enfants.
10. Je (regarder) les enfants.

Q.4 Fill in the blanks with the correct definite article: (le, la, l', les) (5)

1. _____ crayon
2. _____ école
3. _____ télévision
4. _____ livre
5. _____ enfant
6. _____ amies
7. _____ fille
8. _____ table
9. _____ stylos
10. _____ garçon

Q.5 Fill in the blanks with the correct indefinite article: (un, une, des) (5)

1. _____ livres
2. _____ enfants
3. _____ chaise
4. _____ ami
5. _____ classe
6. _____ pendule
7. _____ professeurs
8. _____ chat
9. _____ stylo
10. _____ garçons

P.T.O

Q.6 Write the DAY that comes AFTER : (5)

1. dimanche
2. mercredi
3. jeudi
4. lundi
5. vendredi

Q.7 Write the MONTH that comes BEFORE : (5)

1. novembre
2. mars
3. juillet
4. septembre
5. octobre

Q.8 Multiple choice: Put in the correct greeting according to the situation : (5)

BONJOUR – AU REVOIR – JE VAIS BIEN MERCI – MERCI – COMMENT ALLEZ-VOUS ?

1. You are leaving your friend until the next day: _____
2. You are meeting your friend: _____
3. You are thanking someone: _____
4. You are asking someone how he/she is : _____
5. You are telling someone how you are feeling : _____

Q.9 Translate any 10 of the following sentences : (10)

1. Tuesday 10 July
2. The girl is small.
3. The book is on the table.
4. The chair is big.
5. The students are in the class.
6. She is a girl
7. This is a boy.
8. The pen is red.
9. The teacher is in the house.
10. Saturday 1st September.
11. The book of the student.
12. The clock of the class.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Gender Studies II

Course Code: GS-103 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1: In ancient Greece, women could only leave the home for what reason?

(a): shopping and fetching water

(b): funerals and women's festivals

(c): support for political or military leaders at rallies

(d): for anything they wanted, just like men

2: The Gender studies is.....

(a): It is a social sciences

(b): It is an academic discipline

(c): It is a narratives of women by women

(d): Both (a) and (b)

3: Gender is an area of research, teaching and action has emerged only after:

(a): 1860

(b): 1910

(c): 1947

(d): 1975

4: Which is not related to women's studies?

(a): Gender equity

(b): Consciousness rising

(c): Interdisciplinary study of women

(d): Subjugation of men

5: Feminist research aims at:

(a): Addressing women's issues with women's perspective

(b): Promotion of women research scholars

(c): To study women as an object

(d): Study of women's education

P.T.O.

6: Which is incorrect statement regarding "Masculinities" and " Femininities"

(a): Based on Biological determinism

(b): Changing across time and space

(c): Socially constructed

(d): Gendered rather than non-Gender

7: Masculinity is not synonymous with

(a): Strength

(b): Power

(c):Aggression

(d): Emotions

8: Feminist Research is:

(a): Interdisciplinary

(b): Multidisciplinary

(c): Cross-disciplinary

(d): All the above

9: Among the following statements which is not an object of gender Sensitizati programme.

(a): Promoting societal awareness to gender issues

(b):Review of curriculum and education materials to remove gender bias

(c): Remove of all derogatory, references to the dignity of women

(d): Removal of caste hierarchy from the society

10: In Pakistan, the first Psychology department to offer a course of Gender Studies in their programs was....

(a): LUMS

(b): Beacon house National University

(c): Muhammad Ali Jinnah University

(d): Shaheed Benazir Bhutto City University

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Gender Studies II

Course Code: GS-103 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Short answers. (2x10=20)

i. **Write a note on the following** 10

The women in development approach(WID)

OR

Gender and Environment Approach(GED)

ii. Discuss the strategies for Gender mainstreaming. 10

Q.3. Answer the following questions briefly. (3x10=30)

i. What are the fundamental differences between Gender Studies and Women's Studies? Substantiate your argument(s) with examples. Highlight the current status of women studies in Pakistan (15)

ii. What type(s) of feminism can elevate the social-cultural, economic and political status of women in Pakistan? (15)

iii. In the last two decades, globalization has had a huge impact on the lives of women in developing nations, including Pakistan. What are the impacts of global political economy on Pakistani women? (15)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Socio-Cultural Aspects of Gender
Course Code: GS-104 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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Signature of Supdt.

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Gender is a ---------- concept.

- social
- biological
- psychological

2. Inter culturality is:

- belonging to two or more cultures
- interaction of people from different cultures
- having knowledge of various cultures

3. Cultural norms function to support the fluid operation of:

- society
- religion
- family institution

4. Coates (1986) suggested that ---------- strategy (in terms of gender and language) was used by women to enhance their social identity

- cultural
- assimilation
- personal

5. The idea that gender difference is ---------- constructed is an academic construct present in feminist, philosophical and sociological theories about gender:

- religiously
- culturally
- socially

6. One of Kimmel's major arguments is that gender is a property of ----------.

- institutions
- relations
- interactions

P.T.O.

7. Gender Balance refers to:

- equality of females and males
- having equal number of male and female staff in organizational structure
- equal opportunities for males and females in domestic sphere

8. The concentration of women and men in different types and levels of activity and employment with women being confined to a narrower range of occupation is known as

- gender bias
- occupational segregation
- occupational harassment

9. The focus to change traditional roles of women and men in the society is called:

- Strategic Gender Needs
- Practical Gender Needs
- Gender Empowerment Measure

10. Gender division of labor is based on biology is a claim supported by

- gender sensitivity
- patriarchy
- gender inequity

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Socio-Cultural Aspects of Gender
Course Code: GS-104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Section I: Answer the questions concisely. Each question carries 10 marks.

Q#2

i- 'Language is gendered', what does this imply? Explain your answer with examples.

ii- Do you think both culture and religion play a role in building up gender roles and beliefs? Elaborate your answer.

iii- How do the workplaces promote/maintain a gendered environment?

Section II: Answer the question precisely. Each question carries 5 marks.

Q3 What is patriarchy and what is its role in social construction of gender?

Q4. How do you explain glass ceiling effect?

Q5. What are the main socio-cultural issues in Pakistan?

Q6 Family is a social institution, how does it uphold gendered identities?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Women's History in Pakistan

Course Code: GS-105 / 111 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

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This Paper will be collected back after expiry of time limit mentioned above.

سوال نمبر 1: صحیح جواب کے گرد دائرہ لگائیں۔

i. Who was the first female Prime minister of Pakistan.

پاکستان کی پہلی خاتون وزیر اعظم کون تھیں؟

(a) Fatima Jinnah (b) Benazir Bhutto (c) Begum Nusrat Bhutto (d) None of them

ii. Begum Tahira Mazhar Found 'Anjuman-e-Jamhouriat Pasand Khawateen' in _____.

بیگم طاہرہ مظہر نے انجمن جمہوریت پسند خواتین کی بنیاد سنہ۔۔۔۔۔میں رکھی۔

(a) 1942 (b) 1960 (c) 1950 (d) 1948

iii. Women of Pakistan got equal rights to men in the constitution of Pakistan in _____.

پاکستان کی خواتین نے مردوں کے مساوی حقوق سنہ۔۔۔۔۔۔۔۔کے آئین میں حاصل کیے۔

(a) 1973 (b) 1956 (c) 1965 (d) 1970

iv. Who took down the British Union Jach from the Civil Secretariat Lahore?

سول سیکریٹریٹ سے یونین جیک اتارنے کا کارنامہ انجام دیا۔

(a) Begum Tassadaq (b) Benazir Bhutto (c) Fatima Sughra (d) None of them

v. In Mughal period the name of _____ was engraved on silver and gold coins.

مغل دور میں۔۔۔۔۔۔کا نام سونے اور چاندی کے سکوں پر چھپا ہوا تھا۔

(a) Noor Jahan (b) Mah Chuchak (c) Daulat Begum (d) None of them

vi. The purpose of Muhammadan Educational Conference was.

محمڈن ایجوکیشنل کانفرنس کا مقصد تھا۔

(a) Fighting British Rulers (b) Fighting Hindus
(c) Education of Muslims (d) None of them

vii. First Urdu Magazine for Muslim women named 'Tahzeeb-e-Niswan' was published in.

مسلم خواتین کے لیے پہلا اردو میگزین 'تہذیب نسواں' سنہ۔۔۔۔۔۔میں چھپا۔

(a) 1905 (b) 1898 (c) 1850 (d) 1910

viii. Initiative of APWA was taken by _____.

پاکستان میں اپوا کی بنیاد رکھی۔

(a) Ratti Jinnah (b) Fatima Jinnah (c) Begum Ra'ana (d) Asma Jahangir

ix. Noor Jahhan was the wife of _____.

نور جہاں۔۔۔۔۔۔۔۔۔۔کی زوجہ تھی۔

(a) Jahangir (b) Babar (c) Akbar (d) Humayun

x. Fatima Jinnah contested Presidential Election of 1965 against.

فاطمہ جناح نے 1965 کا صدارتی الیکشن۔۔۔۔۔۔۔کے خلاف لڑا۔

(b) Zulfiqar Ali Bhutto (b) Yahya Khan (c) Ayub Khan (d) Ziaul Haq

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Women's History in Pakistan
Course Code: GS-105 / 111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر2: درج ذیل سوالات کے مختصر جواب دیں۔ تمام سوالات کے نمبر یکساں ہیں۔ (4×5)

i. Draw comparison of rights of Muslim and Hindu women in Mughal Era.

i. مغل دور میں ہندو اور مسلم خواتین کے حقوق کا تقابلی جائزہ مختصراً پیش کریں۔

ii. Who was Bi-Amma? What she was famous for?

ii. بی اماں کون تھیں؟ ان کی وجہ شہرت تحریر کریں۔

iii. Name few of the voluntary services offered after Independence of Pakistan with special reference to woman.

iii. خواتین کے حوالے سے آزادی پاکستان کے بعد پیش کی گئی رضاکارانہ خدمات سے متعلق چند تنظیموں کے نام لکھیں۔

iv. Write a short note on Benazir Bhutto.

iv. بینظیر بھٹو پر مختصر نوٹ لکھیں۔

سوال نمبر3: درج ذیل سوالات کے تفصیلاً جواب دیں۔ تمام سوالات کے نمبر یکساں ہیں۔ (3×10)

i. Write a detailed note on the role of women in Pakistan movement.

i. تحریک پاکستان میں خواتین کے کردار کے حوالے سے تفصیلاً نوٹ لکھیں۔

ii. Women's Role in the light of Quaid-e-Azam's Sayings

ii. قائداعظم کے ارشادات کی روشنی میں خواتین کا مقام و کردار

iii. Impact of Colonization on the status of women in Sub-Continent.

iii. برصغیر پاک و ہند میں خواتین کے مقام پر نو آبادیاتی نظام کے اثرات

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Geography

Course Code: GEOG-111 **Part – I (Compulsory)** **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Choose the correction option only. **(10x1=10)**

i. Select the correct sequence in the order of following Greeks who have contributed vastly to the evolution of geographical thought during the ancient period:
   a) Aristotle-Eratosthenes-Ptolemy-Anaximander
   b) Aristotle-Eratosthenes-Einstein-Ptolemy
   c) Aristotle- Eratosthenes-Ptolemy-Ibn-Batuta
   d) Ibn-Batuta-Ptolemy-Eratosthenes-Aristotle

ii. The difference between map and sketch is:
   a) Scale b) Legend
   c) North Arrow d) Title

iii. North-East(NE) and North-West (NW) are the examples of:
   a) Cardinal Directions b) Intermediate Directions
   c) Primary Directions d) Secondary Directions

iv. Plateaus are the physical features that are rich in:
   a) Mineral resources b) Water resources
   c) Agriculture d) Forest

v. Which two are the examples of Physical Geography?
   a) Urban & Economic Geography b) Geomorphology & Pedology
   c) Environmental & Agricultural Geography
   d) Climate & Cultural Geography

vi. What is the outer most layer of the earth?
   a) Outer Core b) Crust
   c) Mantle d) Upper Mantle

vii. Pakistan's Highest Mountain range is:
   a) Karakoram b) Himalaya
   c) Hindukush d) Sulaiman

viii. Warsek Dam is located on
   a) River Indus b) River Jhelum
   c) River Kabul d) River Gomal

ix. The tropic of Cancer is situated on
   a) 23 ½ North b) 23 ½ South
   c) North Pole d) South Pole

x. Which trench is the deepest:
   a) Mariana trench b) The Philippine trench
   c) The Tonga trench d) The Diamantina trench

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Geography
Course Code: GEOG-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions: (10x2=20)

i. Enlist the types of Atmosphere.
ii. What is igneous rocks?
iii. Define Human Geography.
iv. Write the names of oceans.
v. Write the composition of mantle.
vi. Enlist major branches of Human and Physical Geography.
vii. What is Oceanic Crust?
viii. Define GIS.
ix. Enlist major types of landforms.
x. Give two examples of Sedimentary rocks.

Q.3. Answer the following questions: (3x10=30)

i. Explain in detail evolution of Geography from ancient to modern period.

i. علم جغرافیہ کا ارتقاء قدیم سے جدید تک بیان کریں۔

ii. Define Rocks and discuss different types of rocks.

ii. چٹان کی تعریف بیان کریں نیز ان کی مختلف اقسام بتائیں۔

iii. What is meant by ocean currents? Write a concise note on the ocean currents of Atlantic Ocean.

iii. بحری روئیں کیا ہوتی ہیں اور بحر اوقیانوس کی بحری رووں پر ایک جامع نوٹ لکھیں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Gender Studies-II (MAS)
Course Code: GEND-112 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions: (5x4=20)

i. Enlist five effects of modernization on women in Pakistan?

(الف) ماڈرنائزیشن کے پاکستان میں عورتوں پر پانچ اثرات کو بیان کریں۔

ii. Define WID approach?

(ب) ڈبلیو۔آئی۔ڈی کی تعریف کریں۔

iii. Write three ways by which education can contribute in process of gender equality?

(ج) تعلیم کے جینڈر کی برابری میں حصہ ڈالنے کے تین طریقہ کار بیان کریں۔

iv. What is GED approach?

(د) جی۔ای۔ڈی۔کا طریقہ کار کیا ہے؟

Answer the following questions: (3x10=30)

Q.3. Enlist the indicators for gender equality and discuss them with reference to women status in Pakistan?

(الف) جینڈر کی برابری کے اشارے کون سے ہیں؟ان کو پاکستان میں عورتوں کی ترقی کی صورتِ حال کے حوالے سے بیان کریں۔

Q.4. What progress Pakistan has made in the area of gender with reference to Sustainable Development goals?

(ب) پاکستان نے جینڈر کے حوالے سے سسٹین ایبل ڈیویلپمنٹ اہداف کے حوالے سے کیا پیش رفت کی ہے؟

Q.5. How does gender gap in the field of politics in Pakistan affect the democratic process?

(ج) سیاست کے میدان میں جینڈر گیپ کس طرح جمہوری عمل کو متاثر کر رہا ہے؟

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Gender Studies-II (MAS)
Course Code: GEND-112 **Part – I (Compulsory)** **Time: 15 Min. Marks: 10**

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Q.1. Choose the correct option only. **(5x2=10)**

i. Mohterma Benazir Bhutto was elected first women Prime Minister of the Pakistan in _____.

a) 1999 b) 2001 c) 1997 d) 1988

i. محترمہ بینظیر بھٹو نے پاکستان کی پہلی خاتون وزیر اعظم بننے کا اعزاز۔۔۔۔۔۔۔۔۔ میں حاصل ہے؟

(الف) 1999 (ب) 2001 (ج) 1997 (د) 1998

ii. HDI is abbreviation of _____.

a) Human Development Index b) Human Development Indicator
c) Human Developmental Indicator d) None of these

ii. ایچ۔ڈی۔آئی مخفف ہے۔

(الف) ہیومن ڈیویلپمنٹ انڈکس (ب) ہیومن ڈیویلپمنٹ انڈیکیٹر
(ج) ہیومن ڈیویلپمنٹل انڈیکیٹر (د) ان میں سے کوئی بھی نہیں

iii. GDP stands for _____.

a) Gross Domestic Product b) Gender Development Product
c) Gross Digital Product d) None of these

iii. جی۔ڈی۔پی مخفف ہے۔

(الف) گراس ڈومیسٹک پراڈکٹ (ب) جینڈر ڈیویلپمنٹ پروڈکٹ
(ج) گراس ڈیجیٹل پروڈکٹ (د) ان میں سے کوئی بھی نہیں

iv. UNESCO is abbreviation of _____.

a) United Nations Educational Scientific Cultural Organization
b) United Nations Educational Studies Cultural Organization
c) United Nations Education Social Custom Organization
d) None of these

iv. یونیسکو مخفف ہے۔

(الف) یونائیٹڈ نیشنز ایجوکیشنل سائنٹفک کلچرل آرگنائزیشن (ب) یونائیٹڈ نیشنز ایجوکیشنل سٹڈیز کلچرل آرگنائزیشن
(ج) یونائیٹڈ نیشنز ایجوکیشنل سوشل کسٹم آرگنائزیشن (د) ان میں سے کوئی بھی نہیں

v. UNICEF is abbreviation of _____.

a) United Nations International Children Emergency Fund
b) United Nations Internal Children Emergency Fund
c) United Nations International Cultural Emergency Fund
d) None of these

v. یونیسیف مخفف ہے۔

(الف) یونائیٹڈ نیشنز انٹرنیشنل چلڈرن ایمرجنسی فنڈ (ب) یونائیٹڈ نیشنز انٹرنل چلڈرن ایمرجنسی فنڈ
(ج) یونائیٹڈ نیشنز انٹرنیشنل کلچرل ایمرجنسی فنڈ (د) ان میں سے کوئی بھی نہیں

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: History of Islam (610-750 A.D.)

Course Code: HIS-103 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q. No. 1. Fill in the blanks: (10)

a) The period of Hazrat Usman (R.A) remained for _____year.

b) Hazrat Ali (RA) was titled_____

c) Hazrat Abu Bakar (R.A.) belong to Banu _____

d) Battle of Ahzab took place in _____

e) The conqueror of Egypt was _____.

f) Hazrat Usman (R.A.) belong to Banu_____.

g) Hazrat Umer (R.A) period of Caliphate remained _____years.

h) Saad Ibin Abi Waqqas conquered Persia in_____.

i) Al Farooq was the title of _____.

j) The era of Khilafat-Rashda (Rightly Guided Caliphs) remained _____years.

ا۔ حضرت عثمانؓ کا دورِ حکومت _____ سال رہا۔ ب۔ حضرت علیؓ کو _____ کا خطاب ملا۔

ج۔ حضرت ابوبکرؓ کا تعلق _____ قبیلے سے تھا۔ د۔ غزوہ احزاب کب _____ لڑی گئی۔

ر۔ _____ مصر کا فاتح تھے ۔ ڑ۔ حضرت عثمانؓ کا تعلق _____ قبیلے سے تھا۔

ز۔ حضرت عمرؓ کا عہدِ حکومت _____ قائم رہا۔ ژ۔ سعد ابن ابی وقاص _____ نے ایران کب فتح کیا۔

س۔ الفاروق کا لقب _____ کا تھا۔ ش۔ خلافت راشدہ کی حکومت _____ سال قائم رہی۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: History of Islam (610-750 A.D.)
Course Code: HIS-103 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2. Give Short Answers, Each question carries 10 marks. (20)

i. Hazrat Umar Farooq (R.A.).
ii. Hazrat Khadija (R.A.).

ا۔ حضرت عمر فاروقؓ ب۔ حضرت خدیجہؓ

Q. No. 3. Each question carries 15 Marks. (30)

i. Write a detalied note on the conquest of Mecca.

ا۔ فتح مکہ پر ایک تفصیلی نوٹ لکھیں۔

ii. Describe the character and achievements of Hazrat Ali (RA)

۲۔ حضرت علیؓ کے کردار اور کارنامے بیان کیجئے۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Muslim Struggle for Independence (1930-1947)

Course Code: HIS—104 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q. No. 1. Multipul questions: (10)

1) When the province of Sindh ws seperated from Bombay?

a. 1934 b. 1935 c. 1936

۱۔ سندھ کو بمبئی سے کب الگ کیا گیا۔

2) **When Sir Stafford Cripps announced Criipps proposal.**

a. March 30, 1940 b. March 30, 1942 c. March 30, 1947

۲۔ سر سٹیفورڈ کرپس نے کرپس پرپوزل کب پیش کیا۔

3) **When the Simla Conference under the presidentship of Lord Wavel was ended?**

a. June 14, 1945 b. July 14, 1945 c. August 14, 1945

۳۔ شملہ کانفرنس لارڈ ویول کی سربراہی میں کب ختم ہوئی۔

4) **By whome the formula of 3rd June Plann was announced?**

a. Lord Atlla b. Lord Wavel c. Lord Mountbatten

۴۔ کس نے 3 جون کا منصوبہ پیش کیا۔

5) **Gandhi Jinnah talks took place in**

a. 1944 b. 1945 c. 1943

۵۔ گاندھی جناح بات چیت _____ میں ہوئی۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Muslim Struggle for Independence (1930-1947)
Course Code: HIS –104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2. Give Short Answers, Each question carries 5 marks. (20)

i. Write a note on the importance of the ideology of Pakistan.

ا۔ نظریہ پاکستان کی اہمیت پر تفصیلی نوٹ لکھیں۔

ii. What was 3rd June plane and who was the architecture of this plan.

۲۔ تھرڈ جون پلان کیا تھا اور اس پلان کا بانی کون تھا۔

iii. What was Cripps mission Plan.

۳۔ کرپس مشن پلان کیا تھا۔

iv. Why Muslims colebreted direct action day.

۴۔ مسلمانوں نے یوم راست اقدام کیوں منایا تھا؟

Q. No. 3. Each question carries 15 Marks. (30)

i. Write a detailed note on the Lahore Resolution.

ا۔ قرارداد لاہور پر تفصیلی نوٹ لکھیں۔

ii. Critically evaluate the failure of the cabinet mission plan.

۲۔ کابینہ مشن پلان کی ناکامی کا تنقیدی جائزہ لیں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. in Fig. .....

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Signature of Supdt.:

Paper: Introduction to History
Course Code: HIS-111 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Sir Syed Ahmed Khan wrote the book on the events of War of Independence 1857?
   a. Tarikh-i-Sarkashi-i Bijnor b. Javed Nama
   c. Tarikh-i-Hind d. Spirit of Islam
2. Who was the founder of Dar-ul-Mussanifin Azamgarh?
   a. Sir Syed Ahmed Khan b. Shibli Numani
   c. Altaf Hussain Hali d. Muhammad Hussain Azad
3. In which city Muslim League was founded?
   a. Karachi b. Lahore
   c. Aligarh d. Dacca
4. Jallianwala Bagh is situated in which city?
   a. Sialkot b. Lahore
   c. Amritsar d. Delhi
5. Who presented the Lahore Resolution 1940?
   a. Liaquat Ali Khan b. Hussain Shaheed Suhrawardy
   c. Chaudhary Rehmat Ali d. A.K. Fazl ul Haq
6. At the time of Partition, who was the Prime Minister of England?
   a. Winston Churchill b. Lord Attlee
   c. Woodrow Wilson d. Theodor Roosevelt
7. *India Wins Freedom* was written by?
   a. Abul Kalam Azad b. Maulana Zafar Ali Khan
   b. c. Jawaharlal Nehru d. M. K. Gandhi
8. Who was the Chairman of Boundary Commission?
   a. Churchill b. Mountbatten
   c. Wavell d. Radcliffe
9. Who was the head of Simla Deputation?
   a. Allama Iqbal b. Quaid-i-Azam
   c. Sir Aga Khan d. Waqar ul Mulk
10. Who presented the Poor Man's Budget?
   a. Quaid-i-Azam b. Liquat Ali Khan
   c. Ishaq Dar d. Sir Fazl-i-Husain

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to History

Course Code: HIS-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short note on the following. **(5x4=20)**

1. Simla Deputation
2. Jallianwala Bagh Massacre
3. Lucknow Pact
4. 14 Points of Quaid-i-Azam
5. Radcliffe Award

Q.3. Write brief answers. **(3x10=30)**

1. Write a note on the educational services of Aligarh Movement?
2. Write a note on Allama Iqbal's Allahabad Address?
3. Congress Ministries paved the way to Pakistan. Discuss.

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B.S. 4 Years Program / Second Semester – 2019

Paper: International Relations

Course Code: IR-111 / GEN-12111 Part–I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. Liberals:
- a) Stress the importance of international conflicts in bringing peace
- b) Are pessimistic about international peace.
- c) Agree with realists that are unitary actors.
- d) None of these

ii. Thomas Hobbes provides the philosophical basis for:
- a) Realism b) Liberalism
- c) Post Modernism d) None of these

iii. The author of the book "Twenty Years Crisis" is:
- a. Hans Morganthau b) Harold J. Laski
- c) E. H. Carr d) None of these

iv. Balance of power is based on:
- a) Realist theory b) Idealist theory
- d) Constructivism theory d) None of these

v. Modern State System is believed to have started with:
- a) End of Second World War b) End of Cold War
- c) Peace of Westphalia d) None of these

vi. Important subject of international relations is;
- a) International cooperation b) Human rights
- c) Elections d) None of These

vii. Clash of Civilizations is the ideology given by:
- a) Francis Faukayama b) Kennith Waltz
- c) Samual P. Huntington d) None of These

viii. Nationalism is about:
- a) International Organization b) A state
- c) Economy d) None of These

ix. Diplomacy is about:
- a) Relations between common people only
- b) Relations between government officials
- c) Relations between companies
- d) None of these

x. IR as discipline was developed in:
- a) Europe b) Asia
- c) United States d) None of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: International Relations
Course Code: IR-111 / GEN-12111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with Short Answers: (5x4=20)

i. Explain the origin of Liberalism.

ii. Define and explain Power and its relevance in modern world.

iii. Discuss the national interest of a state.

iv. Explain the importance of International Relations as discipline.

v. Evaluate different types of diplomats.

Q.3. Answer the following questions: (3x10=30)

i. Define International Relations. Discuss its nature and scope.

ii. What is Realism. Discuss its major assumptions.

iii. Analyze the origin and evolution of modern state system.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to International Relations
Course Code: IR-111-A Part–I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (5x2=10)

i. Realists believe that
   a) States are the most important actors in IR
   b) States act like rational individuals in pursuing national interests
   c) States act in an international system characterized by anarchy
   d) Human nature is selfish
   e) All of the above

ii. Non-state actors are
   a) Groups and interests within states that influence a state's foreign policy
   b) Actors that operate below the state level as well as across state borders
   c) Groups like Amnesty International and the United Fruit Company
   d) Actors like sub-state actors and multinational corporations
   e) All of the above

iii. "The national interest is defined as the acquisition of power." The speaker is a(n)
   a) Pluralist
   b) Idealist
   c) Structuralist
   d) Globalist
   e) Realist

iv. A collective goods problem is
   a) More serious in less-developed countries, which do not have the industrial capacity to produce surplus goods
   b) More serious in developed countries, which have the industrial capacity to produce surplus goods
   c) The problem of how to provide something that benefits all members of a group regardless of what each member contributes to it
   d) The problem of two countries producing the same good and competing on world markets for exports
   e) Solved by arbitration or mediation by the International Court of Justice

v. Neoliberals
   a) Stress the importance of international institutions in reducing conflict in the international system
   b) Are pessimistic about international cooperation
   c) Agree with realists that states are unitary actors
   d) View reciprocity as an ineffective strategy for achieving cooperation
   e) A and C

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to International Relations

Course Code: IR-111-A **Part – II** **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with Short Answers: **(5x4=20)**

i. Why Study International Relations? Give at least three reasons mentioned in Joshua's book.

ii. Write a short note on the salient features of Realism.

iii. What do you understand by the term 'Anarchy?'

iv. Write the names of only three books on IR with their author's names.

v. What are different levels of analysis to understand International Relations?

Q.3. Answer the following questions: **(3x10=30)**

i. Compare and contrast realist and liberal theories of International Relations. What are the strengths and weaknesses of each theory?

ii. Write a brief note on the concept of 'Power' explaining the difference between tangible and intangible elements of it.

iii. Define International Relations including the major actors in this discipline.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Programming Fundamentals
Course Code: IT-102, IT-12395 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question # 2 Short Answer Questions. **4 x 5 = 20 marks**

i) What will be the output of the following program? If the program contains some errors *(syntax, run time or logical)* then correct them before writing the output.

```
# include <iostream.h>

int main()
{
   int i;
   int array[3]={10, 15, 20};
   int *ptr1, *ptr2, *ptr3;

   ptr1 = array;
   ptr2 = array+1;
   ptr3 = array+2;
   *ptr2 = 6;
   ptr2 = ptr3;
   *ptr2 = 4;
   ++(*ptr1);

   for (i=0; i<3; i++)
    cout<<array[i]<<" ";

   cout<<endl;

   ++ptr1;
   *ptr1 = 14;

   for (i=0; i<3; i++)
    cout<<array[i]<<" ";

   cout<<endl;
}
```

ii) What will be the output of the following program? If the program contains some errors *(syntax, run time or logical)* then correct them before writing the output.

```
#include <iostream.h>

void inc_count(int *count_ptr)
{
    (*count_ptr)++;
}

int main()
{
       int  count = 0;

    while (count < 10)
        inc_count(&count);

    cout<<count;

    return (0);
   }
```

P.T.O

iii) Write a function name **isPrime**, which takes an integer as an argument and returns **true** if the argument is a Prime number, or **false** otherwise.**[only write the definition for this function]**.

```
bool  isPrime ( int  num ) ;
```

iv) Implement the following function *threeToZero* which accepts an integer array and its size, if there is a 2 in the array immediately followed by a 3, set the 3 element to 0.

Note: Indent your code properly. Use meaningful variable names. Write cin, cout, and all c++ keywords in lowercase (like if, for etc.)

```
void threeToZero(int arr[], int size)
{
        // complete the function definition here
```

Question # 3 **2 x 15 = 30 marks**

i)

Write down a program that accepts the following command line arguments:

I. The name of the text file that contains single – digit integer data separated by a white space.
II. An integer to be searched from the data in the file.

The program displays the total number of occurrences of the integer in the file data.

(ii)

Assume yourself as a part of the control unit of Windows Live hotmail. Your job is to determine the password length of the user entered passwords.

A password

- Is said to be short if it contains less than 6 characters.
- Is perfect if it its length is greater than 6. (Max. length is 20 characters.)

You are to design a function that takes a parameter string (By Reference) and determines its length according to the above mentioned criteria.

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B.S. 4 Years Program / Second Semester – 2019

Paper: Programming Fundamentals
Course Code: IT-102, IT-12395 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. (10x1=10)

1. Placing function prototypes in the definitions of other functions restricts function calls to the function in which the prototypes appear.
   [True] [False]
2. Pointers are valid operands in arithmetic expressions, assignment expressions, and comparison expressions. However, not all the operators normally used in these expressions are valid in conjunction with pointer variables.
   [True] [False]
3. A pointer to void can be dereferenced just like any other pointer, by using the indirection operator (*).
   [True] [False]
4. If b is the name of an array of at least 4 elements, then the following statements both refer to its 4th element.
   &b[3] bPtr + 3
   [True] [False]
5. The following statement defines an array of pointers to strings.
   const char *suit[3] = { "Hearts", "Diamonds", "Clubs" };
   [True] [False]
6. The following function receives a const double-scripted array of integers and two const string arrays.
   void deal(const int wDeck[][13], const char *wFace[], const char *wSuit[])
   [True] [False]
7. A function name is really the starting address in memory of the code that performs the function's task. Pointers to functions can be passed to functions, returned from functions, stored in arrays, and assigned to other function pointers.
   [True] [False]
8. The following statement defines a pointer to a function that receives two integer parameters and returns an integer result.
   int *compare(int, int);
   [True] [False]
9. In C, all arrays passed to functions are passed by reference.
   [True] [False]
10. The string *"life "*, may be stored in an array of 4 characters.
   [True] [False]

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B.S. 4 Years Program / Second Semester – 2019

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Paper: Digital Logic Design

Course Code: IT-104 / IT-12397 Part – I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option. (10x1=10)

1. According to boolean algebra absorption law, which of following is correct?
   - A. x+xy=x
   - B. (x+y)=xy
   - C. xy+y=x
   - D. x+y=y
2. A binary variable can take values
   - A. 0 only
   - B. 0 and -1
   - C. 0 and 1
   - D. 1 and 2
3. Circuits that employs memory elements in addition to gates is called
   - A. combinational circuit
   - B. sequential circuit
   - C. combinational sequence
   - D. series
4. Full subtract circuits have
   - A. 3 inputs and 2 outputs
   - B. 1 input and 1 output
   - C. both a and b
   - D. None
5. A circuit that converts n inputs to 2^n outputs is called
   - A. encoder
   - B. decoder
   - C. comparator
   - D. carry look ahead
6. Decoder is a
   - A. combinational circuit
   - B. sequential circuit
   - C. complex circuit
   - D. gate
7. One that is not outcome of magnitude comparator is
   - A. a>b
   - B. a-b
   - C. a<b
   - D. a=b
8. 3x8 decoder will have
   - A. 3inputs
   - B. 4inputs
   - C. 5inputs
   - D. 6inputs
9. 4 to 1 mux would have
   - A. 2inputs
   - B. 3inputs
   - C. 4inputs
   - D. 5inputs
10. To design a 4 x 16 Decoder how many 2 x 4 decoder are needed?
    - A. 1
    - B. 2
    - C. 3
    - D. 4

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B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Digital Logic Design
Course Code: IT-104 / IT-12397 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question # 2. Short Questions: **(4 x 5 =20 marks)**

a) Convert 2455.30 from Decimal to Octal number system.
b) Perform M-N using r-1's complement where M=1100 and N=1001 are in binary number system.
c) Perform the BCD addition on 259 + 378
d) Draw the truth table for the following.

$$F(A, B, C) = (A'+B')(A'+B'+C')(B+C)$$

e) To implement $F(A,B,C,D) = \sum(0,1,2,4,8,9,15)$ using multiplexer with three variables A, B and C as select lines, What size of MUX is required? What size of decoder is required to implement the same function?

Question # 3. Long Questions **(30 marks)**

a) Simplify the following function using K-Map in POS form.

$F=B'D+B'C+ABCD$

$d=A'BD+AB'C'D'$

b) Implement the following function using multiplexer. Keep three variables A, B and D as select lines to the multiplexer.
$F(A,B,C,D) = \sum(0,1,2,4,8,9,15)$

c) Draw the logic circuit diagram for 2-bit register using D flip flops capable of performing the following operations:

Control Inputs X_1 X_0	Operation
0 0	Shift Left
0 1	Shift Right
1 0	Complement
1 1	Parallel Load

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B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Tafseer-II
Course Code: ISE-103 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر2: درج ذیل سوالات کے مختصر جوابات تحریر کریں۔ (4x5=20)

i. حضرت عیسیٰ علیہ السلام کے کن معجزات کا ذکر سورۃ آل عمران میں کیا گیا ہے؟

ii. حضرت ابراہیم علیہ السلام کے بارے میں آپ کی نصابی سورتوں میں کیا بیان ہوا ہے؟(صرف پانچ سطریں تحریر کریں)

iii. نجران کے وفد کے ساتھ نبی کریم ﷺ نے کیا گفتگو فرمائی تھی؟

iv. سورۃ النحل میں بیان شدہ توحید کے حق میں ایک دلیل چار سطروں میں بیان کریں۔

سوال نمبر3: درج ذیل سوالات کے جامع جواب تحریر کریں۔ (10x3=30)

i. حلال و حرام کے بارے میں ایک جامع مضمون تحریر کیجیے۔

ii. **وللہ علی الناس حج البیت من استطاع الیہ سبیلا** کی تشریح کرتے ہوئے حج بیت اللہ کے بارے میں اہم پہلوؤں پر روشنی ڈالیں۔

iii. **یایھا الذین اٰمنوا لا تاکلوا الربوا اضعافا مضاعفۃ** کی روشنی میں سود کی حرمت پر جامع مضمون تحریر کیجیے۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

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Paper: Tafseer-II

Course Code: ISE-103 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

سوال نمبر 1: کسی ایک جواب کا انتخاب کیجیے۔ کاٹ کر یا مٹا کر لکھا گیا جواب غلط شمار کیا جائے گا۔

1- الا ان تتقوا منهم تقة کا کیا معنی ہے؟

(الف) مگر یہ کہ ان سے بچنا مقصود ہو (ب) مگر یہ کہ انہیں بچانا مقصود ہو (ج) انہیں نقصان پہنچانا مقصود ہو

2- او یاخذهم علی تخوف کا کیا معنی ہے؟

(الف) یا انہیں جنگ میں مبتلا کر دیا جائے (ب) یا ان پر بیماری مسلط کر دی جائے (ج) یا انہیں خوف میں مبتلا کر دیا جائے

3- اذ یلقون اقلامهم کا کیا معنی ہے؟

(الف) جب وہ اپنی قلمیں تیار کر رہے تھے (ب) جب انہوں نے اپنے قلم توڑ دیے

(ج) جب وہ قرعہ اندازی کے لیے اپنے قلم ڈال رہے تھے۔

4- کلمح البصر کا کیا معنی ہے؟

(الف) آنکھ جھپکنے کی مانند (ب) سونے کے لیے آنکھ لگنا (ج) آنکھوں کا بند ہونا

5- انی اعیذها بك کا کیا معنی ہے؟

(الف) میں تیری پناہ میں آتا ہوں (ب) میں تجھ سے نفرت کرتا ہوں (ج) میں تجھ سے محبت کرتا ہوں

6- وله الدین واصبا کا کیا معنی ہے؟

(الف) اس کا دین مضبوط ہے (ب) اسی کی عبادت دائمی طور پر لازم ہے (ج) اسی کا دین سچا ہے

7- سآئغا لشربین کا کیا معنی ہے؟

(الف) پینے میں کڑوا (ب) کھارا پانی (ج) پینے میں خوش ذائقہ

8- والقی فی الارض رواسی کا کیا معنی ہے؟

(الف) زمین کو ہموار کر دیا (ب) زمین میں باغات بنائے (ج) زمین میں میخیں گاڑھ دیں

9- من اٰمن تبغونها عوجا کا کیا مطلب ہے؟

(الف) اس کی تعریف کرتے ہو (ب) اس میں عیب تلاش کرتے ہو (ج) اس کا انکار کرتے ہو

10- فانقذکم منها کا کیا معنی ہے؟

(الف) اس نے تمہیں بچا لیا (ب) اس نے تمہیں پھینک دیا (ج) اس نے تمہیں دور کر دیا۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Hadith-II

Course Code: ISE-104 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

سوال نمبر1: درست جواب پر نشان لگائیں۔

i. The meaning of "Abu Huraira".
a) Father of Cats b) Farmer c) A wealthy person

i. ابوہریرہ کے لغوی معنی ہیں۔
(الف) بلیوں کا باپ (ب) کھیتی باڑی کرنے والا (ج) دولت مند شخص

ii. Abu Musa Ashaary was sent to _____.
a) Kufah b) Yemen c) Syria

ii. ابوموسیٰ اشعری کو بھیجا گیا۔
(الف) کوفہ (ب) یمن (ج) شام

iii. The author of Al-Sahifa Al-Sadiqa is
a) Saad bin Abi Waqas b) Abdullah bin Masood
c) Abdullah bin Umro bin Alaas

iii. الصحیفہ الصادقہ کے مصنف ہیں۔
(الف) سعد بن ابی وقاص رضی اللہ عنہ (ب) عبداللہ بن مسعود رضی اللہ عنہ (ج) عبداللہ بن عمرو بن العاص رضی اللہ عنہ

iv. Number of Sura of Holy Quran is
a) 540 b) 6666 c) 114

iv. قرآن کریم کی سورتوں کی تعداد ہے۔
(الف) 540 (ب) 6666 (ج) 114

v. Khuda means
a) Strategic Plan b) To break the promise c) To prepare weapons

v. خدعہ کے معنی ہیں۔
(الف) جنگی چال (ب) وعدہ خلافی (ج) ہتھیار کی تیاری

vi. According to Hadith the meaning of AMEER is.
a) Ruler b) Responsible person c) A wealthy person

vi. امیر کے لغوی معنی ہیں۔
(الف) حاکم (ب) ذمہ دار (ج) دولت مند شخص

P.T.O.

vii. "Allolo wal Marjan" mention in which Surah?
a) Sura Namal b) Sura Rehman c) Sura Qamer

vii. اللؤلؤ والمرجان کا ذکر سورۃ میں آیا ہے۔

(الف) سورہ نمل (ب) سورہ رحمٰن (ج) سورہ قمر

viii. Hadhrat Abu Hurairah narrated ahadith.
a) 2210 b) 5374 c) 3547

viii. حضرت ابو ھریرہ نے حدیثیں روایت کیں۔

(الف) 2210 (ب) 5374 (ج) 3547

ix. Author of Faidh ul Bari is.
a) Anwer Shah Kashmeeri b) Shabir Ahmed Uthmani
c) Ibn Hajer Asqalani

ix. فیض الباری کے مصنف کا نام ہے۔

(الف) انور شاہ کشمیری (ب) شبیر احمد عثمانی (ج) ابن حجر عسقلانی

x. BAIE means.
a) Sleeping person b) Farmer c) Buyer & seller

x. بائع کے معنی ہیں۔

(الف) سونے والا (ب) کھیتی بیچنے والا (ج) خریدنے اور بیچنے والا

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Hadith-II
Course Code: ISE-104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write down the short answers of the following questions. (10x2=20)

سوال نمبر2: مندرجہ ذیل سوالات کے جواب لکھیں۔

i. Complete this خیر کم من تعلم .....

.i حدیث مکمل کریں۔خیر کم من تعلم ----------

ii. Write down the complete name of Allolo wal Marjan and its author name.

.ii اللؤلؤ والمرجان کا مکمل نام لکھیں اور مصنف کا نام لکھیں۔

iii. Differentiate "Baie Malamsa and baie Munabza.

.iii بیع ملامسہ اور بیع منابذہ میں فرق بیان کریں۔

iv. Write down Arabic text of a hadith about the Jihad.

.iv جہاد کی فضیلت میں ایک حدیث عربی متن کے ساتھ لکھیں۔

v. Highlight the importance of recitation of Holy Qur'an.

.v تلاوتِ قرآن مجید کی فضیلت بیان کریں۔

vi. Complete this Hadith کونوا عباد اللہ

.vi حدیث مکمل کریں۔ کونوا عباد اللہ----------

vii. Write down the author name of "RIAZ U SALHIN".

.vii ریاض الصالحین کے مصنف کا نام لکھیں۔

viii. Translate this Hadith سموا باسمی ولا تکتنوا بکنیتی .

.viii ترجمہ کریں۔سموا باسمی ولا تکتنوا بکنیتی۔

ix. Translate this Hadith ومن اطاع امیری فقد اطاعنی ومن عصیٰ امیری فقد عصانی .

.ix ترجمہ کریں۔ومن اطاع امیری فقد اطاعنی ومن عصیٰ امیری فقد عصانی۔

x. What is mean by Habl al Habla.

.x بیع حبل الحبلہ سے کیا مراد ہے۔

P.T.O.

Q.3. Write down answers of the following questions. **(10x3=30)**

سوال نمبر2: مندرجہ ذیل سوالات کے جواب لکھیں۔

i. Translate and explain this hadith and write down the note on Trade.

i. مندرجہ ذیل حدیث کا ترجمہ و تشریح کرتے ہوئے آداب تجارت پر جامع مضمون لکھیں۔

عن عبداللہ بن عمر ان رسول اللہ ﷺ قال "لا یبیع بعضکم علی بیع اخیہ"

ii. Translate and explain this hadith and write down note on the importance of Jihad.

ii. مندرجہ ذیل حدیث کا ترجمہ و تشریح کرتے ہوئے جہاد کی اہمیت و فضیلت پر جامع نوٹ لکھیں۔

عن عبداللہ بن ابی اوفیٰ قال النبی ﷺ "واعلموا ان الجنۃ تحت ظلال السیوف"

iii. Translate and explain this hadith and write down note on the importance of Holy Qur'an.

iii. مندرجہ ذیل حدیث کا ترجمہ و تشریح کرتے ہوئے فضیلتِ قرآن پر جامع نوٹ لکھیں۔

عن عمر بن الخطاب ان النبی صلی اللہ علیہ وسلم قال: "ان اللہ یرفع بھذا الکتاب اقواما ویضع بہ آخرین"

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Seerat–un–Nabi
Course Code: ISE-105 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

اس پرچے کو علیحدہ سے مہیا کی گئی جوابی کاپی پر حل کریں

Q.2. Write short answers of the following. (10x2=20)

سوال نمبر2: درج ذیل سوالات کے مختصر جواب تحریر کریں۔ (2x10=20)

i. Write down two clauses of Meesaq-e-Madina.

i. میثاقِ مدینہ کی دو دفعات لکھیں۔

ii. What is meant by Ashab-e-Suffa?

ii. اصحابِ صفہؓ سے کیا مراد ہے؟

iii. What was the motive of "Ghazwa-e-Uhed"?

iii. غزوہ احد کا سبب کیا چیز بنی؟

iv. Explain the word "Rahmat-ul-Lil-Alamin".

iv. "رحمۃ للعالمین" سے کیا مراد ہے؟

v. Which companion of the Holy Prophet had the title of Asadullah wa Asad-u-Rasoolehi?

v. اسد اللہ واسد رسولہ کس صحابی کا لقب ہے؟

vi. Write down the two causes of Hijrat-e-Habsha.

vi. ہجرتِ حبشہ کے دو اسباب بیان کیجئے۔

vii. What is meaning of "Rasool" Literally and as a term?

vii. رسول کا لغوی و اصطلاحی مفہوم لکھئے۔

viii. State any two distinctions of the modest wives of the Holy Prophet?

viii. ازواج مطہرات کے کوئی دو امتیازات لکھئے۔

ix. What is meant by "Aswa-e-Husna"?

ix. "اسوہ حسنۃ" سے کیا مراد ہے؟

x. What is meant by Ashrah Mubashirah?

x. عشرہ مبشرہ سے کیا مراد ہے؟

Q.3. Explain the causes & Impacts of Hijrat-e-Madina? (15)

سوال نمبر3: ہجرت مدینہ کے اسباب و اثرات واضح کیجئے۔ (15)

Q.4. Write down the salient features of "Khutba Hajja tul Wida" in detail. (15)

سوال نمبر4: خطبہ حجۃ الوداع کے اہم نکات پر مفصل نوٹ تحریر کیجئے۔ (15)

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Paper: Seerat–un–Nabi

Course Code: ISE-105 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

اس پرچے کو اسی سوالیہ کاپی پر حل کریں

سوال نمبر 1: ہر سوال کے کے تین ممکنہ جواب دیئے گئے ہیں درست جواب پر نشان لگائیں۔ (10x1=10)

i. جہاد اکبر کہا گیا ہے۔

(الف) جہاد بالسیف کو (ب) جہاد بالنفس کو (ج) جہاد بالمال کو

ii. پہلی اسلامی ریاست کی بنیاد رکھی گئی۔

(الف) مکہ میں (ب) مدینہ میں (ج) کوفہ میں

iii. مسلمہ کذاب کے ساتھ لڑی گئی جنگ کو کہا جاتا ہے۔

(الف) جنگِ یرموک (ب) جنگِ قادسیہ (ج) جنگِ یمامہ

iv. ہجرت حبشہ ہوئی۔

(الف) دوبار (ب) تین بار (ج) چار بار

v. غزوہ احد میں صحابہ کرام رضی اللہ عنہم شہید ہوئے۔

(الف) 60 (ب) 70 (ج) 80

vi. شعب ابی طالب میں مسلمان محصور رہے۔

(الف) چار سال (ب) تین سال (ج) دو سال

vii. پہلی وحی نازل ہوئی۔

(الف) غارِ حرا (ب) غارِ ثور (ج) جبل ابی قبیس

viii. بنو نجار تھے۔

(الف) انصار میں سے (ب) مہاجرین میں سے (ج) یہود میں سے

ix. روزہ کا بنیادی مقصد ہے۔

(الف) حصول تقویٰ (ب) نصرتِ دین (ج) تزکیہ نفس

x. اسد اللہ و اسد رسولہ لقب ہے۔

(الف) حضرت علی المرتضیٰ رضی اللہ عنہ (ب) حضرت حمزہ رضی اللہ عنہ (ج) حضرت خبیب رضی اللہ عنہ

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Islamic Studies / Ethics
Course Code: ISE-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر۔2 درج ذیل سوالات کے مختصر جوابات دیجئے۔(20)

1) گمان کے بارے میں قرآنی آیت تحریر کریں۔
2) متقین کی دو صفات بیان کریں۔
3) اسلام کن پانچ بنیادوں پر قائم ہے؟
4) نبی ﷺ کی چار ازواج مطہرات کے نام لکھیں۔
5) " وَبِالْآخِرَةِ هُمْ يُوقِنُونَ "آیت کا ترجمہ بیان کریں۔
6) نبی ﷺ کے دو بیٹوں کے نام لکھیں۔
7) آیت" وَقَرْنَ فِي بُيُوتِكُنَّ" کی وضاحت کریں۔
8) نبی کریم صلی اللہ علیہ وسلم نے ارحم امتی کا خطاب کسے دیا؟
9) "مَنْ يُرِدِ اللَّهُ بِهِ خَيْرًا يُفَقِّهْهُ فِي الدِّينِ" حدیث مبارکہ کا ترجمہ تحریر کریں۔
10) امین الامت کس صحابی کا لقب ہے؟

حصہ الثانیہ

سوال نمبر۔3 درج ذیل سوالات کے مفصل جوابات قلمبند کریں۔(30)

1) خطبہ حجۃ الوداع پر مفصل نوٹ لکھیں۔
2) مغربی تہذیب کے خصائص واثرات پر تفصیلی روشنی ڈالیے۔
3) صلح حدیبیہ حالات وواقعات کی روشنی میں بیان کیجئے۔

For Ethics

درج ذیل تمام سوالات کے جوابات مطلوب ہیں۔ تمام سوالات کے نمبر یکساں ہیں۔

1) بدھ مت کی اخلاقی تعلیمات پر جامع نوٹ لکھیں۔ 20
2) اخلاقی تعلیمات انسانی زندگی کے کن پہلوؤں پر محیط ہیں۔ 20
3) سچائی کے متعلق مختلف مذاہب کے نظریات قلمبند کریں۔ 20

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Islamic Studies / Ethics

Course Code: ISE-111 Part – I (Compulsory) Time: 15 Min. Marks: 10

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For Muslim

سوال نمبر۔1 درج ذیل تمام کثیر الانتخابی سوالات کے درست جوابات کے گرد دائرہ لگائیں۔(10)

1. حضور ﷺ نے مکہ میں تبلیغ کی۔

A دس سال B بارہ سال C تیرہ سال

2. قرآن پاک کی سب سے چھوٹی سورت ہیں۔

A سورت عصر B سورت کوثر C سورت اخلاص

3. اسلام کے بنیادی عقائد ہیں

A تین B چار C پانچ

4. درج ذیل میں سے فعل ماضی کی نشاندہی کریں۔

A اضرب B ذھب C یحسب

5. غیبت کو کس چیز سے تشبیہ دی گئی ہے؟

A برائی B مردہ بھائی کا گوشت کھانے سے C بداخلاقی

6. اللہ تعالیٰ جس کو بھلائی دینے کا ارادہ کرتا ہے اسے عطا کرتا ہے

A سکون B عقل C دین کی سمجھ

7. تم میں سے بہترین وہ ہے جو----------

A قرآن پڑھتا ہے B قرآن پڑھاتا ہے C یہ دونوں

8. دین کس پر مکمل ہوا؟

A حضرت ابراہیمؑ B حضرت موسیٰؑ C حضرت محمد ﷺ

9. خاتم النبیین کون سے نبی ﷺ کہلاتے ہیں؟

A حضرت محمد ﷺ B حضرت موسیٰؑ C حضرت ابراہیمؑ

10. مدینہ منورہ کا پرانا نام تھا۔

A یثرب B یمن C مصر

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Journalism
Course Code: JOUR-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions: (5x4=20)

i. What is the difference between print and online journalism?

ii. What are the importance sources of news in present day societies?

iii. Discuss the structure of a news story.

iv. What is the importance of advertising for a newspaper?

v. What are the five major effects of journalism on society?

Q.3. Answer the following questions: (3x10=30)

i. Discuss in detail the importance of news values in the selection of a news stories for a national daily?

ii. Write a comprehensive note on the basic responsibilities of a good news reporter.

iii. Discuss in detail the duties and responsibilities of sub-editor.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Journalism

Course Code: JOUR-111 **Part – I (Compulsory)** **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Choose the correction option only. **(10x1=10)**

i. Major source of revenue of newspaper industry.
   a) Government b) NGOs
   c) Advertising d) None of these

ii. Proximity is a:
   a) News value b) Source of News
   c) Editor's choice d) None of these

iii. Inverted pyramid is a:
   a) Journalism term b) Advertising term
   c) Reporter's work d) None of these

iv. Government is always interested to:
   a) Free journalism b) Control journalism
   c) Stop journalism d) None of these

v. Corrects grammar and expression in news stores
   a) Chief Editor b) News reporter
   c) Sub-editor d) None of these

vi. Journalism creates _____ in society.
   a) National integrity b) Chaos
   c) Confusion d) None of these

vii. Who filters information in news story?
   a) Sub-editor b) Newspaper
   c) Managing editor d) None of these

viii. Objectivity is core value of
   a) Reporting b) Advertising
   c) Editing d) None of these

ix. A good news reporter always report an event
   a) As it happens b) When it happens
   c) As he likes d) None of these

x. The present day newspaper industry is experiencing
   a) Censorship b) Financial challenges
   c) Technological challenges d) None of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Mathematics A -II, [Plane Curves & Analytic Geometry]
Course Code: MATH-103 / MTH-12309 Part – II

Time: 2 Hrs. 30 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Short Questions $10 \times 2 = 20$

1. Find the focus and directrix of the parabola $x^2 + 6x - 8y + 17 = 0$.
2. Find the radius of curvature on any point on the curve $x = a(\cos t + t\sin t)$, $y = a(\sin t - t\cos t)$.
3. Identify the surface defined by $z^2 - 4y^2 - 16x - 16y - 2z + 49 = 0$.
4. Show that the pedal equation can be expressed as
$$\frac{1}{p^2} = \frac{1}{r^2} + \frac{1}{r^4}\left(\frac{dr}{d\theta}\right)^2.$$
5. Find equation of the cylinder with directrix $C : y - z^2 = 0$ and having elements parallel to the vector $\hat{\mathbf{n}} = [2, 3, 4]$.
6. Find the points of relative extreme of the curve $y = 2x^3 - 15x^2 + 36x + 10$.
7. Find the asymptotes of the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$
8. Find equation of the plane through the origin and perpendicular to the straight line $x = 2 + t, y = 2 - 3t, z = -2 + 2t$.
9. Find the position and nature of the multiple points on the curve $y^3 = x^3 + ax^2$.
10. Show that the equation $z(x^2 + y^2) = 1$ represents a surface of revolution. Also find its generatix in xz-plane and its axis of revolution.

Subjective Questions $6 \times 5 = 30$

1. Find the equation of straight line which is perpendicular to the straight lines

$\frac{x-3}{1} = \frac{y-5}{-2} = \frac{z-7}{1}$ and $\frac{x+1}{7} = \frac{y+1}{-6} = \frac{z+1}{1}$.

Also find its points of intersection with the given lines.

Find the equation of the plane through $(5, -1, 4)$ and perpendicular to each of the following planes

$x + y - 2z - 3 = 0$ and $2x - 3y + z = 0$

P.T.O.

2. Show that the pedal equation of the curve

$$x = ae^{\theta}(\sin\theta - \cos\theta), \qquad y = ae^{\theta}(\sin\theta + \cos\theta)$$

is $r = \sqrt{2}p$.

3. Find the envelop of the family of lines $bx + ay - ab = 0$ where the parameters a and b are connected by the relation $a + b = c$.

4. Find the area of the region bounded by the loop of curve $3ay^2 = x(x-a)^2$.

5. Find the equations of the tangent and normal at $\theta = \frac{\pi}{2}$ to the cycloid

$$x = a(\theta - \sin\theta), \qquad y = a(1 - \cos\theta).$$

6. Find the direction of Qibla of Badshahi Mosque, Lahore, latitude = $31°35'.4$N and longitude = $74°18'.7$E. The latitude and longitude of the Khana-e-Kaba (Qibla) are $21°25'.2$N and $39°49'.2$E, respectively.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Mathematics A -II, [Plane Curves & Analytic Geometry]
Course Code: MATH-103 / MTH-12309 Part – I (Compulsory) Time: 30 Min. Marks: 10

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. A pair of straight lines is given by the equation $6x^2 + xy - y^2 - 21x - 8y + 9 = 0$. The angle between these lines is
(a) $\frac{\pi}{2}$ (b) 0 (c) $\frac{\pi}{3}$ (d) $\frac{\pi}{4}$

2. The equation $r^2 = a^2 \sin 2\theta$ can be expressed in rectangular co-ordinates as
(a) $4xy(x^2 - y^2)$ (b) $(x^2 + y^2)^2 - 2a^2xy = 0$ (c) $(x^2 + y^2) = 2a^2x^2y^2$
(d) $y^2 = 4ax$

3. The equation $r = \frac{4}{1+\cos\theta}$ represents
(a) ellipse (b) parabola (c) hyperbola (d) circle

4. The curve $x^2 + y^2 = 14$ is symmetric about
(a) line x−axis (b) line $x = y$ (c) line y-axis (d) both x and y axes

5. The locus of centers of curvatures for a given curve is called its
(a) involute (b) envelope (c) diameter (d) evolute

6. The parametric equations of the curve $r = e^\theta$ are
(a) $x^2 = e^\theta, \quad y^2 = e^\theta$ (b) $x^2 + y^2 = e^\theta, \quad x^2 - y^2 = 0$ (c) $x = e^\theta \cos\theta, \quad y = e^\theta \sin\theta$ (d) None of these

7. The curve $2x^3 - 15x^2 + 36x + 10$ has relative minimum at $x =$
(a) -1 (b) 3 (c) 2 (d) 0

8. A point through which there pass two branches of a curve is called
(a) simple point (b) ordinary point (c) double point (d) corner point

9. A surface defined by an equation of the form $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$ is called
(a) ellipsoid (b) hyperboloid of one sheet (c) hyperboloid of two sheets
(d) paraboloid

10. A surface defined by an equation of the form $\frac{x^2}{a^2} + \frac{y^2}{b^2} = cz$ is called
(a) ellipsoid (b) cylinder (c) sphere (d) elliptic paraboloid

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Mathematics B-II [Mechanics (II)]

Course Code: MATH-104 Part – I (Compulsory) **Time: 30 Min. Marks: 10**

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Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. The curve which is traced by the particle as the time progresses is called ..... . (1 mark)

   (a) Velocity

   (b) Transverse

   (c) Trajectory

   (d) None of these

2. If a particle starts from O at $t = 0$, what would be the velocity of the particle at any time t if its position at that time is given by $\vec{r} = a\cos t\hat{i} + b\sin t\hat{j}$? (1 mark)

   (a) $a\cos t\hat{i} - b\sin t\hat{j}$

   (b) $-a\cos t\hat{i} - b\sin i\hat{j}$

   (c) $-a\sin t\hat{i} + b\cos t\hat{j}$

   (d) $-a\cos t\hat{i} + b\sin t\hat{j}$

3. The direction of the radius vector is known as the radial direction and that perpendicular to it in the direction of increasing θ is called ..... . (1 mark)

   (a) Transverse direction

   (b) Radial direction

   (c) Circular direction

   (d) Straight direction

4. The motion of particle along a straight line is called ..... . (1 mark)

   (a) Rectilinear motion

   (b) Circular motion

   (c) Transverse motion

   (d) None of these

5. A stone is let fall freely form a height of $100ft$. What would be the velocity that it acquires on teaching the ground? (1 mark)

   (a) $v = 80ft/sec$

   (b) $v = 80ft/sec$

   (c) $v = 81ft/sec$

   (d) $v = 70ft/sec$

P.T.O.

6. The number of oscillations which the particle completes in a unit of time, is known as ..... (1 mark)

(a) Frequency of oscillation

(b) Time-period of oscillation

(c) Harmonic oscillation

(d) None of these

7. If a body is symmetric with respect to each of two planes, its center of mass lies on their lines of ..... (1 mark)

(a) Union

(b) Center

(c) Intersection

(d) Both (b) and (c)

8. An apse is a point on an orbit at which the radius vector drawn from the centre of force is a maximum or minimum. The length of the radius vector at such a point is known as the ..... (1 mark)

(a) Apse line

(b) Apsidal angle

(c) Apsidal distance

(d) None of these

9. The law of force towards the pole, of a particle describing the curve $r^n = a^n \cos n\theta$ is given by ..... (1 mark)

(a) $f = \frac{(n-1)h^4 a^{4n}}{r^{4n+3}}$

(b) $f = \frac{(n-1)ha}{r^{2n+3}}$

(c) $f = \frac{(n-1)h^3 a^{3n}}{r^{2n+3}}$

(d) $f = \frac{(n-1)h^2 a^{2n}}{r^{2n+3}}$

10. If M and m are the masses of the sun and the planet, they attract each other with a force ..... (1 mark)

(a) $\frac{GMr^2}{m}$

(b) $\frac{Gmr^2}{M}$

(c) $\frac{GMm}{r^2}$

(d) $\frac{GMr^2}{m^2}$

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Mathematics B-II [Mechanics (II)]
Course Code: MATH-104 Part – II

Time: 2 Hrs. 30 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q # 2 SECTION I-Questions with Short Answers (20)

1. Find the centroid of the arc of the curve $x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$ lying the first quadrant. (4 marks)

2. Find the radial and transverse components of the velocity of a particle moving along the curve $ax^2 + by^2 = 1$ at any time t if the polar angle $\theta = ct^2$. (4 marks)

3. A particle projected vertically upwards at $t = 0$ with velocity u, passes a point at a height h at $t = t_1$ and $t = t_2$. Show that $t_1 + t_2 = \frac{2u}{h}$ and $t_1 t_2 = \frac{2h}{g}$. (4 marks)

4. A point describes simple harmonic motion in such a way that its velocity and acceleration at a point P are u and f respectively and corresponding quantities at another point Q are v and g. Find the distance PQ. (4 marks)

5. A particle moving in a straight line starts from rest and is accelerated uniformly to attain a velocity of 60 miles per hour in 4 seconds. Find the acceleration of motion of the particle. (4 marks)

Q # 3 SECTION II-Questions with Brief Answers (30)

1. The radial and transverse components of velocity of a moving particle are λr and $\mu\theta$ respectively. Find the radial and transverse components of its acceleration. (6 marks)

2. Find the distance from the cusp of the centroid of the region bounded by the cardiod $r = a(1 + \cos\theta)$. (8 marks)

3. A particle is projected vertically upwards. After a time t, another particle is sent up from the same point with the same velocity and meets the first at hight h during the downward flight of the first. Find the velocity of projection. (8 marks)

4. A particle of unit mass describes an ellipse under the action of central force Mr. Show that the normal component of the acceleration at any instant is $\frac{abM^{\frac{3}{2}}}{V}$, where V is velocity at that instant and a, b are semi-axis of ellipse. (8 marks)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Discrete Mathematics

Course Code: MATH-105 / MTH-12311 Part – II

Time: 2 Hrs. 30 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Solve the following short questions (5x4=20)

1. Let R be a binary relation on a set A. Prove that
   If R is reflexive, then R^{-1} is reflexive.
2. Let f: R→R be defined by $f(x) = x^3 + 5$
   Show that f is one-to-one and onto. Find a formula that defines the inverse function f^{-1}.
3. Find the sum of first n natural numbers.
4. Define a relation L on the set of real numbers **R** be defined as follows:
   for all $x, y \in R$, $x\,L\,y \Leftrightarrow x < y$.
   a. Is L reflexive?
   b. Is L symmetric?
   c. Is L transitive?
5. What is the minimum number of students in a class to be sure that two of them are born in the same month?

Q3. Solve the following **Long Questions** (5x6=30)

1. Suppose R and S are binary relations on a set A.
   a. If R and S are reflexive, is $R \cap S$ reflexive?
   b. If R and S are symmetric, is $R \cap S$ symmetric?
   c. If R and S are transitive, is $R \cap S$ transitive?
2. Show that $\sim(p \oplus q)$ and $p \leftrightarrow q$ are logically equivalent.
3. Let S be the function such that S(n) is the sum of the first n positive integers. Give a recursive definition of S(n).
4. Suppose f: X→Y and g: Y→Z and both of these are one-to-one and onto. Prove that $(gof)^{-1}$ exists and that $(gof)^{-1} = f^{-1}og^{-1}$.
5. Show that the set 2Z of all even integers is countable.
6. Prove by mathematical induction $\frac{1}{1.2} + \frac{1}{2.3} + \ldots + \frac{1}{n(n+1)} = \frac{n}{n+1}$ for all integers $n \geq 1$

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Discrete Mathematics

Course Code: MATH-105 / MTH-12311 Part–I (Compulsory) **Time: 30 Min. Marks: 10**

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Let U = {1, 2, 3, ..., 10}, X = {1, 2, 3, 4, 5}
   Y = {y | y = 2 x, x ∈X}, Z = {z | $z^2 - 9z + 14 = 0$}.Enumerate $X^c - Z^c$

   a. {1,2} b. {7} c. {3,4,5} d. {2,4,6}

2. If A= {1,2,3,4}, then the number of elements in P (A) =.....
   a. 2^4 b. 2^3 c. 2^6 d. 2^7

3. The order pairs which are not present in a relation, must be present in
   a. Inverse of that relation b. Composition of relation c. Complementary relation of that relation d. None of these

4. The 8th term of the following geometric sequence
   4, 12, 36, 108, ...

   a. 8748 b. 8768 c. 12 d. 8766

5. 1, 10, 10^2, 10^3, 10^4, 10^5,...is
   a. Arithmetic series b. Geometric series
   c. Arithmetic sequence d. Geometric sequence

6. The total number of one-to-one functions from a set with three elements to a set with two elements.
   a. 4 b. 0 c. 1 d. 3

7. If $f(x) = 2x+1$ then its inverse =.....
   a. $x-1$ b. $\frac{x-1}{2}$ c. $1+x$ d. None of these

8. The statement of the form p∨~ p is.....
   a. Tautology b. Contradiction c. Fallacy d. All of these

9. A collection of rules indicating how to form new set objects from those already known to be in the set is called
   a. Base b. Restriction c. Recursion d. Fallacy

10. Which term of the sequence 4,1,-2,... is -77
    a. 26 b. 27 c. 28 d. None of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Elementary Mathematics-I (Algebra)

Course Code: MATH-111 / MTH-12107 Part – I (Compulsory) Time: 2 Hrs. 30 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Short Questions. **(10x2=20)**

1. Define complex number
2. Factorize $9a^2 + 16b^2$
3. Find the inverse of the relation and check whether it is a function of not by diagram

$$\{(1,2),(2,5),(3,4),(2,1),(5,4)\}$$

4. Define function with example.
5. If $A = \begin{bmatrix} i & 0 \\ 1 & -i \end{bmatrix}$ show that $A^4 = I_2$
6. The sum of a positive number and its square is 380. Find the number.
7. By remainder theorem find remainder when $x^2 + 3x + 7$ is divided by $x + 1$.
8. If 5 and 8 are two arithmetic means between a and b. Find a & b.
9. If $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are in G.P then show that common ratio $= \pm\sqrt{\frac{a}{c}}$
10. Prove that $sin^2\theta + cos^2\theta = 1$

Q.3. Long Questions. **(3x10=30)**

1. Solve by Cramer rule

$$2x - 3y + 4z = -12, \quad x - 2y + z = -5, \quad 3x + y + 2z = 1$$

2. a). Solve: $4^{1+x} + 4^{1-x} = 10$

   b). If $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are in A.P then show that common difference $= \frac{a-c}{2ac}$

3. a) Expand the following upto 4 times, taking the values of x such that the expansion is valid $(2 - 3x)^{-2}$

   b). Prove that : $Sin^2\frac{\pi}{6} + Sin^2\frac{\pi}{3} + Sin^2\frac{\pi}{4} = 2$

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Elementary Mathematics-I (Algebra)

Course Code: MATH-111 / MTH-12107 Part – I (Compulsory) Time: 30 Min. Marks: 10

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Consider the sets $A = \{a, b, c, d, e\}$, $B = \{1,2,3,4,5\}$ Then $A - B$ is -----

   a) $\emptyset$

   b) B

   c) A

   d) None of these

2. If $\begin{pmatrix} a & -b \\ b & a \end{pmatrix}$ is invertible under matrix multiplication then its inverse is----------

   a) $\begin{pmatrix} a & -b \\ b & a \end{pmatrix}$

   b) $\frac{1}{a^2+b^2}\begin{pmatrix} a & -b \\ b & a \end{pmatrix}$

   c) $\frac{1}{a^2+b^2}\begin{pmatrix} a & b \\ -b & a \end{pmatrix}$

   d) $\frac{1}{a^2-b^2}\begin{pmatrix} a & -b \\ b & a \end{pmatrix}$

3. The product of cube root of unity is

   a) 1

   b) 2

   c) 3

   d) 0

4. For any two non-singular matrices A and B, $(AB)^{-1} = ?$

   a) $A^{-1}B^{-1}$

   b) $B^{-1}A^{-1}$

   c) AB

   d) BA

5. Every recurring non terminating decimal is a ..... number.

   (a) Rational

   (b) Irrational

   (c) Real

   (d) None of these

P.T.O.

6. The conjugate of $-2+3i$ is

a) $2-3i$
b) $2+3i$
c) $-2+3i$
d) $-2-3i$

7. An infinite geometric series is convergent if

a) $r>1$
b) $r<1$
c) $r=1$
d) Both b and c

8. Which of the following cannot be the term of a harmonic progression?

a) 0
b) 1
c) 2
d) 3

9. The middle term of the expansion $(1+2x)^6$

a) 3rd term
b) 4th term
c) 5th term
d) 2nd term

10. $1+2+3+4+\cdots+n=?$

a) n
b) $\frac{n(n+1)}{2}$
c) $\frac{n(n+1)(n+2)}{6}$
d) n^2

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Calculus-II

Course Code: MATH-123 / MTH-12333 Part – I (Compulsory) **Time: 30 Min. Marks: 10**

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. The sum of first six terms of the series 1+7+13+... is

   E. 12

   F. 24

   G. 48

   H. 96

2. $H_1, H_2, \ldots, H^n$ are said to be n harmonic means between a and b if $a, H_1, H_2 \ldots, H^n, b$ form

   E. H.P

   F. A.P

   G. G.P

   H. Harmonic series

3. If a and d are the first term and the common difference of the A.P respectively, then the nth term of corresponding H.P is

   E. $a^n = a+(n-1)d$

   F. $a^n = 1/a+(n-1)d$

   G. $a^n = a/1+(n-1)d$

   H. $a^n = a/a+(n-1)d$

4. The sum of an infinite geometric series exist only if the condition on the common ratio r is

   E. $-1 < r < 1$

   F. $-1 \leq r \leq 1$

   G. $r < -1, r > 1$

   H. $r \leq -1, r \geq 1$

5. The sum of the series $1+1/2+1/2^2 + \ldots$ is

   E. 2

   F. $3/2$

   G. $4/3$

   H. $10/9$

P.T.O.

6. 1,8,15,22,29,36,... is

A. G.P

B. A.P

C. Geometric series

D. arithmetic series

7. The A.P whose nth term is 2n-1 is

A. 1,3,6,...

B. 2,3,5,...

C. 1,3,5,...

D. 5,3,1,...

8. The arithmetic mean between a and b is

A. a-b/2

B. b-a/2

C. a + b/2

D. $\pm\sqrt{(ab)}$

9. If $a^{n+2} + b^{n+2}/a^{n+1} + b^{n+1}$ is the geometric mean between a and b, then n =

A. −1

B. 1

C. −2

D. −0.5

10. The geometric mean between -2ι and 8ι are

A. ±4

B. ±3

C. ±2

D. ±1

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Calculus-II

Course Code: MATH-123 / MTH-12333 Part – II

Time: 2 Hrs. 30 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question no: 2

Attempt all short questions. (2 X 10 = 20)

1. If $u = \text{arc.tan}\left[\frac{x^3+y^3}{x-y}\right]$, show that:

$$x.\frac{\partial u}{\partial x} + y.\frac{\partial u}{\partial y} = \text{Sin } 2u$$

2. If $u = \text{Sin}^{-1}\left[\frac{x+y}{\sqrt{x}+\sqrt{y}}\right]$; show that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = \frac{1}{2}(\tan u)$
3. Define Ratio Test and Cauchy's Root Test.
4. What do you know about Homogeneous Functions? Explain.
5. Prove that the given series is convergent. Also find out its limiting value:

$$\sum_{1}^{\infty} \frac{1}{9n^2+3n-2}$$

6. Determine whether the sequence converges or diverges: .

$$\sum_{1}^{\infty} n^3.e^{-n^4}$$

7. Define sequence and series. Explain with examples.
8. Determine whether the sequence converges or diverges:

$$\sum_{1}^{\infty} n.\left(\frac{\pi}{n}\right)^n$$

9. Define direct comparison and Limit comparison test.
10. Find dy/dx in the $3(x^2+y^2)^2 = 25(x^2-y^2)$.

Question no: 3

Attempt all long questions. **(3 X 10 = 30)**

1. State and Prove the Euler's Theorem.
2. Investigate the behavior of the series:

$$\sum_{1}^{\infty} \left(\frac{n}{2n+1}\right)^n$$

3.

(a) State and Proof any theorem regarding the differentiable implicit functions.

(b) Find the slope of the tangent to the hyperbola $x^2 = 4xy-3y^2-9$ at the point (2, -1).

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Analytical Geometry

Course Code: MATH-124 / MTH-12118 Part – II **Time: 2 Hrs. 30 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Section-I

Question No.2: Answer the following short questions. **(20)**

i. Find equation of the straight line passing through the point p(0,-3,2) and parallel to the straight line joining the points A(3,4,7) and B(2,7,5)

ii. Find an equation of the plane through the points (1,0,1) and (2,2,1) and perpendicular to the plane x-y-z+4=0.

iii. Show that he straight line $\frac{x+3}{2} = \frac{y-4}{7} = \frac{z}{3}$ is parallel to the plane 4x+2y+2z=9

iv. Find the intercepts of the given surface on the co-ordinate axes

$$x^2 + 4y^2 + 5xz - 2x + y - 3 = 0$$

v. Find the centre and radius of the sphere

$$x^2 + y^2 + z^2 + 3x - 4z + 1 = 0$$

Section-II

(Long Question)

Q.3. (10)

a. Find an equation of the cylinder with directrix $C: y - z^2 = 0$ and having elements parallel to n=[2,3,4]

b. Discuss the surface

$$S: f(x,y,z) = \frac{x^2}{4} + \frac{y^2}{4} + \frac{z^2}{16} - 1 = 0$$

Q.4. (10)

a. Show that the shortest distance between the lines x+a = 2y = -12Z and x = y+2a = 6(Z-a) is 2a.

b. Find an equation of the plane passing through the point (2, -3,1) and containing the line x-3 = 2y=3z-1

Q.5. (10)

a. Show that the distance of the point p(3,-4,5) from the plane 2x+5y-6z=16 measured parallel to the line

$$\frac{x}{2} = \frac{y}{1} = \frac{z}{-2} \; is \; \frac{60}{7}$$

b. Show that the S: $(x(y^2+z^2)=1$ a surface of revolution. Find a generatix and axis of revolution.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Analytical Geometry

Course Code: MATH-124 / MTH-12118 Part–I (Compulsory) **Time: 30 Min. Marks: 10**

Roll No. in Fig. .....

Roll No. in Words. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. If the curve in the xy-plane is revolved about x-axis then replace y^2 by.
   a. y^2+x^2
   b. y^2+z^2
   c. x^2+y^2

ii. Focus of the parabola $x^2=4py$ is
   a. (0, -p)
   b. (0, p)
   c. (-p,0)
   d. (p, 0)

iii. The equation $\frac{x^2}{4}+\frac{z^2}{16}=1$represents a
   a. Circle
   b. Parabola
   c. Ellipse

iv. The direction cosines of z-axis are
   a. (0,1,1)
   b. (1,0,0)
   c. (0,0,1)

v. If $f(x,y,z)=0$ implies $f(-x,-y,-z)=0$, the surface is symmetric with respect to
   a. yz-plane
   b. origin
   c. y-axis

vi. Cylindrical co-ordinates represent a point in space by ordered triples.
   a. (x, y, z)
   b. $(\rho,\theta,\emptyset)$
   c. (r,θ,z)

vii. The points where the focal axis and ellipse cross are the elipse's
   a. Focal axis
   b. Vertices
   c. Foci
   d. Center points

viii. Two vectors A and B are parallel if and only if there exists a real number 'K' such that.
   a. A=KB
   b. A = K-B
   c. A = K+B

ix. Centre to focus distance of the hyperbola $\frac{x^2}{16}-\frac{y^2}{9}=1$is
   a. 4
   b. 5
   c. $-\sqrt{7}$
   d. C

x. The co-ordinates of the mid point of a line segment are found by.
   a. Dividing
   b. Averaging

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Calculus (IT)-II

Course Code: MATH-132 / IT-12392 Part – I (Compulsory) Time: 30 Min. Marks: 10

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. $\nabla\cdot$ is termed as.

a) divergence operator b) gradient operator c) curl operator d) Both a and b

2. In Maxwell's equation, $\nabla\cdot D=\rho_{ev}$; $\nabla\cdot$ is

a) Divergence operator b) Scaler operator c) information not complete d) Arc function

3. Vector operator that produces a scalar field giving quantity of a vector field's source at each point is called

a) Divergence operator b) Curl operator c) Double gradient operator d) Null vector

4. The gradient of $xi + yj + zk$ is

a) 0 b) 1 c) 2 d) 3

5. Curl of gradient of a vector is

a) Unity b) Zero c) Null vector d) Depends on the constants of the vector

6. Find the divergence of the vector $yi + zj + xk$.

a) -1 b) 0 c) 1 d) 3

7. Find whether the vector is solenoidal, $\mathbf{E} = yz\,i + xz\,j + xy\,k$

a) Yes, solenoidal b) No, non-solenoidal

c) Solenoidal with negative divergence d) Variable divergence

8. Divergence of gradient of a vector function is equivalent to

a) Laplacian operation b) Curl operation c) Double gradient operation d) Null vector

9. The curl of a curl of a vector gives a

a) Scalar b) Vector c) Zero value d) Non zero value

10. A field in which a test charge around any closed surface in static path is zero is called

a) Solenoidal b) Rotational c) Irrotational d) Conservative

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Calculus (IT)-II

Course Code: MATH-132 / IT-12392 Part – II **Time: 2 Hrs. 30 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question no: 2

Attempt all short questions. (4 X 5 = 20)

1. Define and explain with diagrams that the increasing and decreasing functions are opposite in nature?
2. Define the planes in 3-space with help of diagram.
3. Define parametric equation of lines.
4. Show that the function $f(x,y) = x \sin(y/x) - y \cos(x/y)$ is homogeneous of degree 1.
5. Prove that the divergence theorem holds good for any vector valued function.

Question no: 3

Attempt all long questions. (3 X 10 = 30)

1. State and prove the Eulers's Theorem.
2. State and prove the Stoke's Theorem.
3. Find the slope to the tangent to the hyperbola $x^2 - 4xy - 3y^2 - 9$ at the point (2,-1).

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Mass Communication
Course Code: BSCS-111/ MAS-12110 / MASS-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers. **(5x4=20)**

i. Elaborate the concept of communication.

بلاغ کے تصور پر روشنی ڈالیں۔

ii. State the importance of feedback in the process of communication.

ابلاغ میں آراء کی اہمیت کو واضح کریں۔

iii. Elaborate a few functions of mass communication with relevant examples.

متعلقہ مثالوں کے ساتھ بڑے پیمانے پر مواصلات کے کچھ افعال کی وضاحت کریں۔

iv. Draw a comparison between print and electronic media, which one is more effective these days?

پرنٹ اور الیکٹرانک میڈیا کے مابین ایک موازنہ کریں۔ ان دونوں میں سے موجودہ حالات میں کونسا زیادہ مؤثر ہے؟

v. Draw the process of communication stating various aspects involved in it.

ابلاغ کے عمل کی وضاحت کریں۔ اس میں شامل مختلف پہلوؤں پر روشنی ڈالیں۔

Q.3. Answer the long questions. **(10x3=30)**

i. Agenda setting is the back bone of any communication on media. Elaborate the levels of agenda setting how it is exhibited in media platform.

ایجنڈا سیٹنگ کسی بھی میڈیا میں ریڑھ کی ہڈی کی اہمیت رکھتا ہے۔ ایجنڈا سیٹنگ کے درجوں کی مثالوں کے ساتھ وضاحت کریں۔

ii. Development is an emerging phase of media sector. Throw light on the aspect of public opinion formation through development function of mass media.

ڈیویلپمنٹ میڈیا کا ابھرتا ہوا سیکٹر ہے۔ ماس میڈیا کے ذریعے ترقیاتی منصوبوں میں رائے عامہ کی تشکیل کے پہلو پر روشنی ڈالیں۔

iii. Explain various types of communication, state examples to elaborate the concept.

ابلاغ کے مختلف اقسام کی وضاحت کریں مثالوں کے ساتھ بحث کریں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Mass Communication

Course Code: BSCS-111/ MAS-12110 / MASS-111 Part–I (Compulsory) Time: 15 Min. Marks: 10

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

سوال نمبر 1: درج ذیل میں سے درست جواب کا انتخاب کریں۔

1. Talking to one self is known as _____ communication.

.1 خود کلامی ان میں سے کیا کہلاتی ہے _____

(a) Interpersonal (b) Intrapersonal
(c) Extra personal (d) Mass Communication

2. The hindrance in the process of communication is:

.2 کمیونیکیشن کے عمل میں رکاوٹ کہلاتی ہے:

(a) Noise (b) Destruction
(c) Interval (d) Encoding

3. Which one is not a function of mass communication?

.3 ان میں سے کون ساماس کمیونیکیشن کا کام نہیں ہے؟

(a) Inform (b) Educate
(c) Demotivate (d) Entertain

4. Periodical are included in:

.4 رسالے ان میں سے کس کی مثال ہیں؟

(a) Electronic media (b) Digital media
(c) Print media (d) None

5. Communicating with plants and animals is a form of non-verbal communication known as:

.5 جانوروں اور پودوں سے بات چیت کرنا کہلاتا ہے:

(a) Intra Personal (b) Extra Personal
(c) Verbal (d) None

6. In the communication process _____ is the individual who initiate a message and is often called the communicator or source of communication. .6

مواصلات کے عمل میں ایک فرد جو پیغام دیتا ہے اسے کیا کہا جاتا ہے؟

(a) Receiver (b) Sender
(c) Extra Personal (d) None of these

(PTO)

7. A Communication _____ refers either to transmission medium such as a wire, or to a logical connection over a multiplexed medium such as a radio in telecommunications and computer networking. .7

کسی مواصلات کا مطلب ترسیل کا ذریعہ ہوتا ہے جیسے تاروں کی ملٹی پلکس میڈیم، جیسے ٹیلی مواصلات اور کمپیوٹر نیٹ ورکنگ ہے۔

(a) Message (b) Channel
(c) Intra personal communication (d) None of these

8. In rhetorical and communication studies, a ____ is defined as information conveyed by words (in speech or writing) and / or other signs and symbols. .8

بیان بازی اور مواصلات کے مطالعے میں ایک معلومات کو الفاظ میں تبدیل کرنے کو کہتے ہیں۔

(a) Message (b) Decoding
(c) Agenda Setting (d) Propaganda

9. The _____ means interpreting the meaning of the message. .9

_____ کا مطلب پیغام کی ترجمانی کرنا ہے۔

(a) Encoding (b) Decoding
(c) Channel (d) Receiver

10. The _____ is the process of turning thoughts into communication. .10

_____ خیالات کو مواصلات میں بدلنے کا عمل ہے۔

(a) Decoding (b) Encoding
(c) Encoder (d) Decoder

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Pakistan Studies
Course Code: PST-111 / 12101 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Who was invited by Shah Wali Ullah to crush the Power of Marhatta's in India.
   (a) Ahmad Shah Abdali (b) Nadar Shah
   (c) Ghias ud Din Balan (d) Noru ud Din Zangi
2. Nehru Report was presented in the year?
   (a) 1927 (b) 1928 (c) 1929 (d) 1930
3. Who committed the 'grave injustice' while dividing Punjab at the time of Partition?
   (a) Sir William Mayor (b) Sir Cyril Radcliffe
   (c) Sir Pathik Lawrence (d) Sir Stafford Cripps
4. As per Objectives Resolution sovereignty belongs to?
   (a) Parliament (b) Allah (c) Voters (d) Government
5. 8th Amendment in the 1973 Constitution was passed during.
   (a) Yahya Khan Regime (b) Zia ul Haq Era
   (c) Pervez Musharaf Era (d) Ghulam Ishaq Khan Era
6. Who represented India at Tashkent agreement in 1965?
   (a) Indra Gandhi (b) Mararji Desai (c) Lal bahadur Shastri
   (d) Alat Bihari Vajpai
7. Which is the Highest Peak of Pakistan.
   (a) K2 (Godwin Austen) (b) Broad Peak (c) Nanga Parbat (d) Silkaram
8. Who was the First Governor General of Pakistan?
   (a) Khawaja Nizim ud Din (b) Malik Ghulam Muhammad
   (c) Iskendar Mirza (d) Muhammad Ali Jinnah
9. Incident of 9/11 took place in the year _____.
   (a) 1998 (b) 1999 (c) 2000 (d) 2001
10. As per 1973 Constitution of Pakistan, who is the Head of State in Pakistan?
   (a) President (b) Prime Minister (c) Governor (d) Chief Minister

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Pakistan Studies

Course Code: PST-111 / 12101 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2. Write short answers of the following questions. 10 x 2 = (20)

سوال نمبر 2۔ درج ذیل سوالات کے مختصر جوابات دیجئے۔

1. Write the name of most famous book of Hazrat Shah Waliullah.

۱۔ حضرت شاہ ولی اللہ کی مشہور ترین کتاب کا نام لکھئے۔

2. How the State of Jammu & Kashmir was occupied by India?

۲۔ انڈیا نے ریاست جموں کشمیر پر کیسے قبضہ کیا۔

3. Who presented the Lahore Resolution and where?

۳۔ قرارداد لاہور کس نے اور کہاں پیش کی؟

4. What is the importance of the pamphlet 'Now or Never'?

۴۔ پمفلٹ 'اب نہیں کبھی نہیں' کی کیا اہمیت ہے؟

5. Note down the six points of Sheikh Mujeeb ur Rehman.

۵۔ شیخ مجیب الرحمٰن کے چھ نکات بیان کریں؟

6. Discuss briefly the 'Simla Agreement' of 1972.

۶۔ 1972 کا شملہ معاہدہ کے بارے میں بیان کریں۔

7. Name the Highest peak in Pakistan.

۷۔ پاکستان کی سب سے بلند چوٹی کا نام بتائیں۔

8. What was the 'Bogra Formula'?

۸۔ بوگرہ فارمولہ کیا تھا؟

9. Write down two salient features of 1956 constitution.

۹۔ 1956ء کے آئین کے دو نکات لکھیں۔

10. Write down two problems faced by the Agriculture sector of Pakistan.

۱۰۔ پاکستان کے زرعی شعبہ کے دو مسائل بتائیں۔

Q. No. 3. Attempt any three of the following questions in detail. 10 x 3 = (30)

درج ذیل میں سے کوئی سے تین سوالات حل کریں۔

1. Discuss in detail the contributions made by Sir Syed Ahmad Khan to guide the Muslims of the Subcontinent.

1۔ برصغیر کے مسلمانوں کی راہنمائی کے لئے سر سید احمد خان کی خدمات تفصیل سے بیان کریں۔

2. What were the causes of delay in marking the first Constitution 1956 of Pakistan?

2۔ 1956ء کے آئین کی تاخیر کے اسباب بیان کریں؟

3. Critically analyze the causes of downfall of Dacca.

3۔ ڈھاکہ کی ناکامی کی وجوہات بیان کریں۔

4. Write down the salient features of the 1973 Constitution of Pakistan?

4۔ 1973ء کے آئین کے خدوخال بیان کریں۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Biomechanics
Course Code: PE-104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.No.2. **(Short Answer with example).** **4 x 5= 20**

i. Kinematics ii. Second law of Motion

iii. Inertia iv. Lift force

Brief Answer

Q.No.3. How the knowledge of sports biomechanics enhances the performance of sports in Pakistan. **3+7 = 10**

Q.No.4. Define the projectile motion. Discuss the factors that affect the projectile motion. **10**

Q.No.4. Discuss the types of lever with sports examples and how find out the mechanical advantages of lever. **10**

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Biomechanics
Course Code: PE-104 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Coaches mostly rely on the _____ analysis.
   a) Qualitative
   b) Quantitative
   c) Both a and b
   d) None of above

2. Weight per unit of volume is called
   a) Pressure
   b) Force
   c) Specific weight
   d) None of above

3. F x t=?
   a) Torque
   b) Momentum
   c) Density
   d) Impulse

4. In which event of track and field, displacement is zero.
   a) 100 m
   b) 200m
   c) 1500m
   d) 800m

5. If a ball is slowing down, the acceleration of the ball will be:
   a) Negative
   b) Positive
   c) Zero
   d) None of above

6. In a 100 m freestyle, meter/second will be unit of:
   a) Velocity
   b) Acceleration
   c) Speed
   d) Both a and b

7. The most important condition for maximum horizontal displacement of a projectile is what?
   a) velocity at release or takeoff
   b) height of release or takeoff
   c) angle of projection
   d) all of the above are of equal importance

P.T.O.

8. Which of the following factors that affect skin drag, can athletes usually alter?

A. roughness of the body surface **B.** Amount of surface area in contact with the fluid

C. viscosity of the fluid **D.** both A and B **E.** All of the above

9. Lift force occurs in which direction?

A. up **B.** Down **C.** Sideways **D.** all of the above

10. Which of the following describes the drag created by a pressure differential between the lead and rear sides of a body moving through a fluid?

A. form drag **B.** Profile drag **C.** Surface drag **D.** Both A and B above

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Track and Field

Course Code: PE-105 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. When javelin is consider as a game

(a) 18th century (b) 15th century (c) 19th century (d) 20th century

2.Maximum length of runway in Javelin throw is;

(a) 38.00 m (b) 35.00 m (c) 36.50 m (d) 40.00 m

3. Width of a lane in standard track is

(a) 1.50 m (b) 1.22 m (c) 1.55m (d) 2 m

4. Jesse Owen made a record of 8.13 M in long Jump in _____ Olympics.

(a) 1927 (b) 1991 (c) 1936 (d) 1940

5. ____ introduce a new style in long jump in 1922 to 1927 named as " Hitch Jump"

(a) Pierre de Coburton (b) William hart & Robert le Gendre. (c) Jesse Owen (d) Mike Poul

6. Second lane sprinter is at the distance of ____ from the sprinter of first lane.

(a) 7.35 m (b) 7.30 m (c) 7.40 m (d) 8 m

7. If there are eight or less than eight player than every player go ___ trial field event

(a) 4,4 (b) 6,6 (c) 10,10 (d) 4,4

8. 400 m race was introduced in Olympic games.

(a) 1912 (b) 1914 (c) 1922 (d) 1918

9. In which Olympic Javelin is thrown with two hands

(a) 1904 (b) 1912 (c) 1922 (d) 1918

10. Width of take-off board in long Jump is;

(a) 45 cm (b) 20 cm (3) 35 cm (d) 30 cm

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Track and Field

Course Code: PE-105 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Write the short answer questions of the following questions (20)

(a) Write down the fouls of throwing the discus throw? (3)

(b) What are the track events? (2)

(c) List the countries which organize Olympic Games? (3)

(d) What are Decathlon and Pentathlon (combine events) (3)

(e) What is an Olympic Oath? (3)

(f) What are the duties of a starter? (4)

(g) Give the measurements of runway and landing area in long Jump? (2)

Q3. (a) Draw drown the sector of Javelin along with its measurements.(5)

(b) Write down the fouls of Javelin throw. (5)

Q.4 Explain the rules of relay race in details. (10)

Q5. Write down the fouls of high jump and how tie solve in high jump. (10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Electricity & Magnetism

Course Code: PHY-103 / PHY-12328 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 Give the short answer of each question **(2 x 10 = 20)**

i. What is difference between charging by contact and charging by induction?

ii. Describe briefly the two properties of electric field lines.

iii. Explain, electric flux vanishes inside the uniform sphere of charge.

iv. Describe briefly the difference between insulators and dielectrics.

v. The value of magnetic field B at a distance z from the center of loop of radius R, is given by $B = \frac{\mu_0 I R^2}{2(R^2+z^2)^{3/2}}$. Compute B at the center of the loop and when z >> R.

vi. Compute the relation between current and current density.

vii. Explain the difference between emf and potential difference.

viii. Write the equation for magnetic force on wire segment of length L, carrying current I, placed in a uniform magnetic field B, the direction of current makes angle φ with magnetic field. Explain when magnetic force is zero and maximum.

ix. What distinguish ferromagnetic materials from paramagnetic materials?

x. Write four Maxwell's equation of electromagnetism.

Q.3 **(a)** Derive the expression for the potential energy at any angle on an electric dipole, when it isplaced insidethe uniform electric field. **(6)**

(b) A molecule of water vapor (H_2O) has an electric dipole moment of magnitude p= 6.2 x 10^{-30} C.m. (a) What is the maximum torque on a molecule of H_2O in a typical laboratory electric field of magnitude 1.5 x 10^4 N/C.? (b) The work done in rotating the dipole from $\theta_0 = 180°$ to $\theta = 0°$. **(4)**

Q.4 **(a)** State Ampere's law. Using Ampere's law show that magnetic field inside the solenoiddepends on current and number of turns per unit length. **(1,6)**

(b) A solenoid has the length 1.23 m and an inner diameter 3.55 cm. I t has five layers of winding of 850 turns each and carries a current 5.57 A. What is B at its center?**(3)**

Q.5 **(a)** What is motional emf? When a closed conducting loop of width D is moved inside a uniform magnetic field, pointing at right angle to the plane of the loop. Determine the value of induced emf and induced current sets up in the loop. **(1,3,3)**

(b) A circular UF television antenna has diameter of 11.2 cm. The magnetic field of TV signal is normal to the plane of the loop, and at one instant of time, its magnitude is changing at the rate of 157 mT/s. The field is uniform. Find the emf in antenna. **(3)**

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Electricity & Magnetism

Course Code: PHY-103 / PHY-12328 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. A sphere of radius R has the total charge q, which is uniformly distributed. What is electric field at a points at a distance r greater than the radius of sphere?

(a) $\frac{1}{2\pi\varepsilon_0}\frac{q}{r^2}$ (b) $\frac{1}{4\pi\varepsilon_0}\frac{qr}{r^3}$ (c) $\frac{1}{4\pi\varepsilon_0}\frac{q}{r^2}$ (d) $\frac{1}{4\pi\varepsilon_0}\frac{q}{R^2}$

ii. The flux through a flat surface of area A in a uniform electric field $\vec{E}$ is maximum

(a) When the Surface is parallel to $\vec{E}$ (b) When the Surface is perpendicular to $\vec{E}$

(c) The Surface is shaped like square (d) The Surface is shaped like rectangle

iii. Which of the following change to a parallel plate capacitor will result in an increase in the capacitance?

(a) By increasing potential difference across the plates (b) By increasing the area of plates

(c) By increasing the charge on plates (d) By increasing the separation of the plates

iv. The current and current density have directions associated with them. Are they vectorquantity?

(a) Only current is vector quantity (b) Only current density is vector quantity

(c) Both are vector quantity (d) Both current and current density are not vector

v. An electric dipole of dipole moment $\vec{P}$ in a uniform electric field $\vec{E}$ will experience a minimum potential energy, when the angle between $\vec{P}$ and $\vec{E}$ is

(a) 180° (b) 0° (c) 90° (d) ∞

vi. Biot-Savart law and which of the following law in electrostatics are analogous

(a) Lenz's law (b) Gauss's law (c) Coulomb's law (d) Faraday's law

vii. The material which exhibits the hysteresis is

(a) Diamagnetic (b) Paramagnetic (c) Ferromagnetic (d) All above

viii. Lenz' law is based on principle of

(a) Conservation of charge (b) Conservation of momentum

(c) Conservation of energy (d) Both (a) and (b)

ix. The magnitude of Pointing vector is given by

(a) $\frac{1}{\mu_0}EB$ (b) $\frac{1}{\varepsilon_0}EB$ (c) $\frac{1}{\mu_0}B^2E^2$ (d) $\frac{1}{\mu_0 c}EB$

x. The temperature at which resistivity of a material suddenly drops to zero is called

(a) Absolute temperature (b) Supper cooling temperature

(c) Curie temperature (d) Critical temperature

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

PAPER: Thermodynamics and Kinetic Theory

Course Code: PHY-104, PHY-12329 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Why does the glass sometimes break if you quickly pour boiling water into it?
   - i) Hot water expands, pushing the glass out
   - ii) Hot water cools when it touches the glass
   - iii) The glass becomes hot and expands, causing the molecules to break
   - iv) The inside of the glass expands faster than the outside of the glass, causing the glass to break.
2. Which has the higher mass density at same temperature and pressure.
   - i) Dry air
   - ii) Humid air
   - iii) Both have same
   - iv) Other conditions needed to be mentioned
3. Which of the following is not a State Function of the system
   - i) Pressure
   - ii) Temperature
   - iii) Internal Energy
   - iv) Work
4. In Carnot Engine, Internal Energy in one Cycle is
   - i) Positive
   - ii) Negative
   - iii) Constant
   - iv) Zero
5. The Efficiency of the Carnot engine in terms of T_1 and T_2 is
   - i) $1-(T_2/T_1)$
   - ii) $1-(T_1/T_2)$
   - iii) $1+(T_2/T_1)$
   - v) $1+(T_1/T_2)$
6. The density of gas in a bell jar is kept constant while varying the temperature, if the temperature is doubled, then the mean free path will
   - i) Double
   - ii) Remain the same
   - iii) Decrease by half
   - iv) Becomes four times

P.T.O.

7. Which type of ideal gas will have the largest value of C_p/C_v
   i) Monoatomic
   ii) Diatomic
   iii) Polyatomic
   iv) The value will be the same for all
8. Which of the following is a necessary condition for a process involving an ideal gas to do work
   i) $\Delta T \neq 0$
   ii) $\Delta P \neq 0$
   iii) $\Delta V \neq 0$
   iv) $Q \neq 0$
9. A block of Aluminium originally at 80^0C is placed into an insulated container of water originally at 25^0 C , After a while the system reaches an equilibrium temperature of 31^0C, During the process
   i) Change in entropy of Aluminium block is positive
   ii) Change in entropy of Aluminium block is negative
   iii) Change in entropy of Aluminium block is zero
   iv) None of the above
10. Work done in an adiabatic process is _____ than that in isothermal process
   i) Greater
   ii) Smaller
   iii) Equal
   iv) Zero

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

PAPER: Thermodynamics and Kinetic Theory

Course Code: PHY-104, PHY-12329 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Section I

Q#2

Note: Give brief answers to the following questions: 2×10=20

1. State the two forms of zeroth law of thermodynamics
2. Write conversion formulae between Fahrenheit and Kelvin Scales.
3. Write the expressions for the van der Waals equation of state of real gases. And write the reason for volume correction.
4. Define the linear Coefficient of thermal expansion in solids and relate it to the corresponding coefficient of volume expansion.
5. Explain the strange behavior of volume expansion of water in the temperature range $0\text{-}4^0C$
6. Write the statements of the second law of thermodynamics in terms of
   i) Entropy
   ii) Heat engine.
7. Define the latent heat of
   i) Fusion
   ii) Vaporization
   Also write the respective units
8. Write the expressions for the following thermodynamic potentials mentioning the quantities involved
   i) Helmholtz Free Energy
   ii) Gibbs Free energy
9. Derive any one of the Maxwell thermodynamic relations.
10. The turbine in the steam power plant takes steam from a boiler at 600^0C temperature reservoir and rejects at 60^0C , calculate its efficiency.

Section II

Q#3

Note : Give the detailed answers: (30)

1) Derive the following expressions considering one mole of the ideal gas to be the thermodynamic system under consideration with the standard notations for the quantities: (10)
   i) PV^{γ}= Constant
   ii) C_p- C_v= R
2) What do you mean by thermoelectricity and thermocouple, Explain the Seebeck Effect and Peltier effect. (10)
3) Derive the first and the second TdS equations and explain one application in each case.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Physics-II (Waves & Oscillation)
Course Code: PHY-113 / PHY-12307 Part – I (Compulsory) Time: 15 Min. Marks: 10

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. A body with frequency f. would complete one vibration in:

(a) f.sec (b) $(1/f)$ sec (c) 1 sec (d) f^2

ii. The vibratory or oscillatory motion of a body is:

(a) Translatory Motion (b) Back and forth motion about mean position (c) Free fall Motion (d) Circulatory Motion

iii. The distance between two consecutive anti nodes is

(a) 2λ (b) λ (c) $\lambda/2$ (d) $\lambda/4$

iv. Conversion of water in to ice in refrigerator is an example of:

(a) Adiabatic Process (b) Isothermal Process (c) Isochoric Process (d) None of these

v. The steam engine is:

(a) An Optical System (b) A Thermal System (c) Thermodynamic System (d) None of these

vi. The equation PV =nRT is called:

(a) Boyles law (b) Charles law (c) Ideal gas law (d) None of these

vii. When two objects come to common temperature, the objects are said to be in:

(a) Static Equilibrium (b) Dynamic Equilibrium (c) Thermal Equilibrium (d) None of these

viii. In all irreversible processes the entropy:

(a) Remains Constant (b) Increases (c) Decreases (d) None of these

ix. The wave motion setup in any medium depends upon:

(a) Elasticity (b) Inertia (c) Density (d) All of these

x. Wavelength, (λ) frequency(f) and velocity of wave (v) are related as:

(a) $V = f\lambda$ (b) $\lambda \simeq Vf$ (c) $f = V\lambda$ (d) None of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Physics-II (Waves & Oscillation)
Course Code: PHY-113 / PHY-12307 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers of the following. **(2 x 10) = 20**

i. What is time period of second's pendulum.

ii. Define Wave length λ and write its unit.

iii. Define Kinetic Energy write its formula.

iv. State Vander Waals equation briefly.

v. Define pressure of gas and write its formula.

vi. What is reversible process, give its example.

vii. What is Brownian Motion.

viii. What are travelling waves.

ix. Define simple Harmonic Motion (SHM).

x. Why sound of woman is more shrill as compared to man?

Q.3. (a) State and explain Doppler effect. Write its at least four cases.

(b) A train sounds its horn before it sets off from the station and observer waiting on the plate farm, note its frequency at 1200 Hz. Then train moves steadily and after 50 seconds driver sounds horn again, the observer standing on the plate farm estimates the frequency 1140Hz calculate the speed of train after 50 seconds.(speed of sound = 340 ms^{-1}). (7+3)

Q.4. (a) Define and explain the 2nd law of the thermodynamics.

(b) Prove that PV^{γ} = constant for an adiabatic process. (7+3)

Q.5. (a) What is damped harmonic motion. Find its equation and drive its solution, also define damped Harmonic oscillator.

(b) Prove for simple Harmonic motion, the acceleration (a) depends upon the amplitude(x). (7+3)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Electricity & Magnetism (IT)

Course Code: PHY-122 / IT-12399 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question no.2: Write short answers of the following questions. **(10×2=20)**

1. State and explain Charle's law.
2. A gas is compressed at constant pressure at 0.3atm from volume of 8L to 3L. In this process 400J heat energy flows out of gas. Find the work done by the gas and the change in internal energy.
3. Discuss the efficiency of carnot cycle.
4. Show that for adiabatic process PV^{γ}=constant.
5. Find the relation between drift velocity and current density?
6. Explain Gauss's law briefly.
7. Differentiate between conductors and insulators.
8. What are the types of electricity? Give the units of electric current.
9. State Faraday's law of electromagnetic induction. Explain briefly.
10. What is Magnetic field? Describe right hand rule to find direction of electromagnetic field with the help of diagrams.

Question no.3: **(10+5=15)**

a) Explain the experiment performed to find the expression of Coulomb's law. Also write its vector form and show that it obeys Newton's third law of motion.

b) An electric dipole consists of charges +2e and -2e separated be 0.78 nm. It is in electric field strength. Calculate the magnitude of Torque on the dipole, when the dipole moment is (i) parallel to (ii) antiparallel to the electric field.

Question no.4: **(10+5=15)**

a) Find the magnetic force on a current carrying wire. Explain the phenomena with the help of diagrams.

b) A 200 turns solenoid having a length of 25cm carries a current of 0.30A. Find magnetic field B inside the solenoid.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Electricity & Magnetism (IT)
Course Code: PHY-122 / IT-12399 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1) Which is the process in which temperature of the system remains constant?
   a) Isochoric process b) Isobaric process
   c) Isothermal process d) None of these

2) In an open system, for maximum work, the process must be entirely
   a) irreversible b) reversible c) adiabatic d) none of these.

3) The efficiency of heat engine whose sink is at 17°C and source at 200°C is
   a) 65% b) 80% c) 38% d) 90% e) none of these.

4) The difference between Cp and C_v is equal to
   a) Molar gas constant b) General gas constant
   c) Plank's constant d) none of these

5) According to first law of thermodynamics
   a) Total internal energy of a system during a process remains constant
   b) Total energy of a system remains constant
   c) Work done by a system is equal to the heat transferred by the system
   d) None of the above

6) The force per unit charge is known as
   a) Electric field intensity b) Electric flux
   c) Electric potential d) none of these

7) The drift velocity in the free electron is responsible for the
   a) production of heat energy b) production of power
   c) production of current d) none of these

8) The work done in moving a positive charge from one point to another in an equipotential plane is
   a) positive b) negative c) zero d) none of these

9) An electromagnetic field exists only when there is
   a) Voltage b) current c) both a and b d) none of these

10) When the north poles of two bar magnets are brought close together, there will be
   a) Force of repulsion c) force of attraction
   b) No force d) none of these

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Political Science-II

Course Code: POL-102 / 12445 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.No.2: Give Short Answers. (20)

a) Differentiate between Classical Liberalism and Modern Liberalism.
b) What is meant by 'Gerrymandering'?
c) How close are modern liberalism and social democracy?
d) What is regional nationalism?
e) In what ways, an interest group is different from a political party?
f) What is meant by Proportional Representation?
g) Describe Laissez-faire.
h) Explain Representative Democracy.
i) What is the difference between associational and non-associational Interests groups?
j) What are the main elements of Fascism?

Q.No.3: Explain that how Socialism spilt into a number of varieties. Also elaborate that how Socialism is relevant to the Social Democracy? **(10)**

Q.No.4: Explain the functions of political parties as inputting devices in a political system. **(10)**

Q.N.5: Write a brief note on 'Structural-Functionalism' approach of Political System. **(10)**

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Political Science-II

Course Code: POL-102 / 12445 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

i. : The extreme form of nationalism with elements of racism, socialism and militarism is known as

a) Fascism b) Maoism c) Communism

ii : An ordinary law passed by the legislature, not the part of the Constitution is called

a) Basic Law b) Statute c) Constitutional Law

iii : The citizens reactions to current, specific issues and events is known as

a) Political Culture b) Public Opinion c) Social mobility

iv : The ability of one person's to get another to do something is called

a) Political power b) Legitimacy c) Socialization

v: An association that pressures for government for policies it favors

a) Interest Group b) Political Party c) NGO

vi: The adoption of System Theory in Political Science was introduced in 1953 by

a) David Easton b) Gabriel Almond c) Bingham Powell

vii : According to Aristotle, rule by many in interests of all is categorized as

a) Aristocracy b) Polity c) Democracy

viii : Working with the world as it is and not as we wish it to be; usually focused on power is known as

a) Realism b) Idealism c) Marxism

ix: Who claimed that certain functions exist in all political system?

a) David Easton b) Gabriel Almond c) Max Weber

X: The party that attempts to gain committed adherents; usually has formal membership called

a) Devotee party b) Cadre Party c) Mass party

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Political Science

Course Code: POLS-112 Part – I (Compulsory) Time: 15 Min. Marks: 10

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This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Who is head of state in Presidential form of government_____ _?
   a) President b) Prime Minister c) None of these

2. Unitary form of government focuses on _____powers.
   a) Divided b) Focused c) None of these

3. Pakistan under 1973 constitution believes in _____
   a) Strong centre b) Provincial autonomy c) Balanced between the two

4. System approach is the brain child of _____
   a) Almond and Verba b) Laswell c) Easton

5 Politics describes _____
   a) Human behaviour b) Struggle for power c) Science of Society

6. Main function of legislature is _____
   a) Enact law b) Implement law c) Execute law

7 Relation of Political Science with Psychology is _____
   a) Minor b) Deep c) None of these

8 Idea of 'General Will' was given by _____
   a) Hobbes b) Rousseau c) John Locke

9 Theory of the Separation of Powers was presented by _____
   a) Plato b) Montesquieu c) Locke

10 In which form of government the supreme powers are distributed by the Constitution
   a) Unitary b) Presidential c) Federal

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Political Science

Course Code: POLS-112 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers. (4 x 5 = 20)

i. Write down two definitions of "Elections".
ii. What do you understand by Politics?
iii. Write down two definitions of "Politics"
iv. What is meant by "Judicial Review"?

Write long answers. (3x10=30)

Q.3. What is Political System? Explain its features in detail.
Q.4. Highlight the difference between rigid and flexible constitution.
Q.5. What is Sovereignty? Explain its kinds in detail.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Research Methodology
Course Code: RES-111 / HST-12367 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Fill in the blanks. **(5x2=10)**

i. The first step in Research Process is _____.

ii. Through "Questionnaire" data collection technique mostly used in _____.

iii. "What is History" is written by _____.

iv. "The Historian's Craft" is written by _____.

v. "The Idea of History" is written by _____.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Research Methodology

Course Code: RES-111 / HST-12367 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers. **(4x5=20)**

i. Ancillary Sciences.

ii. External Criticism

iii. Oral History

iv. Internal Criticism

Q.3. Give long answers. **(3x10=30)**

i. Discuss the significance and scope of History.

ii. There is no concept of History writings without documents. Explain.

iii. What do you know about the different Techniques of Data Collection?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Social Anthropology
Course Code: SOC-103 / SOC-12430 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Define the following with examples. **(4x5=20)**

i. Types of family and its functions

ii. Evolution of culture

iii. Process of cultural change

iv. Rules and types of descent

Q.3. Questions with brief answers. **(3x10=30)**

i. How do you define religion beliefs and practices and how it affects life?

ii. Define anthropological research methods. Explain its various stages.

iii. Define family. Explain its types and functions in detail.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Social Anthropology
Course Code: SOC-103 / SOC-12430 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Biological anthropology includes study of
   a. Non-human primates b. Fossil record of human evolution
   c. Human variation d. All of the above
2. Culture Complex means
   a. A cluster of related culture traits
   b. Artifacts used by primitive people
   c. Originally an approach to culture
   d. None of these
3. Human behavior is called:
   a. Anthropology b. Sociology
   c. Psychology d. Archaeology
4. Process when a person learns requirements of culture by he or she is surrounded, values and behaviors that are appropriate or necessary of that culture
   a. Cultural Shock b. Exposure
   c. Enculturation d. Participant Observation
5. Cultural anthropology means
   a. Norms and values b. Social gathering
   c. Communities d. Tribes
6. This is position occupied by a person in a social system relative to others
   a. By social status
   b. A person's position is given to him by birth
   c. A person gets the position by marriage
   d. None of these
7. What includes two processes: participating, or being part of people's lives while careful observing
   a. Participant observation b. Encentrism
   c. Applied observation d. Observing
8. Most famous linguistic anthropologist to study with boas was
   a. Edward Sapir b. Malinowski
   c. None of these d. Karl Marx
9. Magic in a more neutral term
   a. General practice to cure sick b. All of the above
   c. Sorcery d. None of these
10. Applied anthropology is solution of
   a. Practical problem b. Technical Problems
   c. Mechanical Problem d. Electrical Problem

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Development of Social Thoughts

Course Code: SOC-105, SOC-12431 Part – I (Compulsory) Time: 15 Min. Marks: 10

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This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Ibne Khaldun was born in.
   a. North America b. North Asia
   c. North Africa d. None of these
2. The theory of relative deprivation is an example of what?
   a. macro sociological b. theory feminist sociological theory
   c. micro sociological theory d. middle-range sociological theory
3. Theoretical approaches can only be said to be valid if.
   a. the theorist has researched the literature thoroughly
   b. they have been tested out by means of factual research
   c. they are written in such a way as to be impossible to disprove
   d. they are shared by a large enough number of theorists
4. Which one of the following is NOT associated with the materialist conception of history?
   a. the mode of production b. the motor of history
   c. the history of class struggles d. the spirit of capitalism
5. Ibne Khaldun conceived a theory of:
   a. Social conflict b. Social change
   c. Solidarity d. All of the above
6. Scientific or positive phase is the.
   a. First phase b. Second Phase
   c. Last Phase d. None of these
7. Which branch of science according to comet would ultimately include all other sciences.
   a. Biology b. History
   c. Sociology d. Economics
8. It is useful to have a diversity of theories in sociology because.
   a. human behaviour is so complicated that no single theory would be adequate
   b. sociologists can choose the theory that best fits the data they have collected
   c. it removes the need to asses a theory according the empirical evidence
   d. innumerable theories have been developed in the many fields of sociology
9. A rising suicide rate associated with normlessness and a lack of social regulation can be described as.
   a. egoistic suicide b. altruistic suicide
   c. fatalistic suicide d. anomie suicide
10. What does the functionalist perspective see as crucial for the maintenance of social order?
   a. strong class-based identities b. multiculturalism
   c. moral consensus d. a strong state

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Development of Social Thoughts
Course Code: SOC-105, SOC-12431 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Define the following with examples. **(4x5=20)**

i. Folk Thinking

ii. Development of Social Thought

iii. Social Justice

iv. Science of Culture

Q.3. Questions with brief answers. **(3x10=30)**

i. Explain the theory of Abuzar Ghafari within the context of Muslim world. (10)

ii. Write detail note on: (10+10)

a. Evaluation of Society & Causes of Social Life

b. Basic Human Ethics

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Introduction to Sociology
Course Code: SOC-111 **Part – II** **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Define the following with the help of examples. (5x4=20)

i. Perspective
ii. Status
iii. Role Conflict
iv. Deviance
v. Social Group

Q.3. Answer the following questions: (3x10=30)

i. Explain briefly the main propositions of the SOCIAL CONFLICT PERSPECTIVE.
ii. Define STATUS and describes its various TYPES with the help of examples.
iii. How do you differentiate between DEVIANCE and CRIME?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Introduction to Sociology
Course Code: SOC-111 Part–I (Compulsory) **Time: 15 Min. Marks: 10**

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Division of marks is given in front of each question.
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Q.1. Choose the best answer. **(5x2=10)**

a) Religion serves as a source of promoting exploitation, comes under the ideology of ---------- (functionalist/ conflict)

b) A value or practice functional at a particular time and place may become dysfunctional at another time and place (True/False)

c) The importance of symbols holds true in interaction (True/ False)

d) Formal relationships are shared among the members of ------- group (primary/ secondary)

e) The smallest unit of a culture is called ------- (complex/trait)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Sociology -II
Course Code: SOC-104 / SOC-12428 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Define the following with examples. **(4x5=20)**

i. Status and role

ii. Religion

iii. Education

iv. Health & Medicine

Q.3. Questions with brief answers. **(3x10=30)**

i. What is Political Institution? Give its functions with reference to Pakistani Society?

ii. Explain in detail the demographic and environmental aspects of social change within the context of Pakistani context.

iii. Write a note on social mobility and its types.

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B.S. 4 Years Program / Second Semester – 2019

Paper: Sociology -II
Course Code: SOC-104 / SOC-12428 Part – I (Compulsory) Time: 15 Min. Marks: 10

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Socialization in children takes place.
   a. In the same class
   b. among the children of different classes
   c. between lower and middle classes
   d. both a and c

2. The lower class is often considered to be living in.
   a. Culture of poverty b. Culture of lower class
   c. Mere poverty d. None of these

3. Social relations are directly proportional to:
   a. Sociology b. Social status
   c. Caste system d. None of these

4. Which of the following is NOT a social class in the United States?
   a. Untouchables b. Upper class
   c. Middle Class d. Lower Class

5. Is a segment of a population whose members hold similar amounts of scarce resources and share values, norms, and an identifiable lifestyle.
   a. Group b. Social class
   c. Caste d. Primary group

6. A change in society creates through:
   a. Social movement b. Social behavior
   c. Collective behavior d. Social control

7. The word stratification derives from the geological concept "Strata" meaning.
   a. Class b. Groups
   c. Rock Layers d. None of these

8. Social stratification is:
   a. a system in which people can change their status with relative ease.
   b. the ranking or grading of individuals and groups into hierarchical layers
   c. based entirely on self-classification
   d. None of the above

9. A stratum of people of similar positions in the social status continuum are termed as:
   a. Social class b. Clan or tribe
   c. Community d. None of these

10. Each social class is a subculture with a system of:
    a. Behaviour b. Set of values
    c. Way of life d. All of above

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Sociology-II (MAS)
Course Code: SOC-112 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Religious organizations tend to fall into
   a. Four types b. Two types
   c. Three types d. Six types
2. When studying social stratification, how many different dimensions did we look at
   a. 2 b. 5
   c. 4 d. 3
3. Which dimension of social stratification describes recognition, respect, and admiration attached to social positions?
   a. Wealth b. Power
   c. Prestige d. Honor
4. A change in society creates through
   a. Social movement b. Social behavior
   c. Collective behavior d. Social control
5. Major issues facing high-income countries are
   a. Capital flight b. Deindustrialization
   c. Industrialization d. A and B
6. A Group of people affiliated by consanguinity affinity and co-residence is.
   a. Neighbourhood b. Class
   c. Family d. None of these
7. Which of the following is considered a total institution?
   a. A university b. A mental hospital
   c. A factory d. Each of the above
8. Which sociological perspective emphasizes that government has a strong interest in encouraging adoption?
   a. Functionalist perspective b. Conflict perspective
   c. Interactionist perspective d. labeling theory
9. Media comes from a _____ word medium.
   a. Greek b. Latin
   c. French d. Spanish
10. Religion also contributes to bitter and often bloody conflict and a tool of:
   a. Exploitation b. Revolution
   c. Society d. Rights

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Sociology-II (MAS)
Course Code: SOC-112 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Define the following with examples. (4x5=20)

i. Global Stratification

ii. Mass Communication

iii. The Economy and Work

iv. Politics and Government

Q.3. Questions with brief answers. (3x10=30)

i. What are the class and caste system? Briefly explain the dimensions of stratification within the context of Pakistani society?

ii. What is Social change? Explain causes of social change within the context of Pakistani society.

iii. Explain the role of Mass Media in forming Public opinion.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Probability and Probability Distributions

Course Code: STAT-102 Part–I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Choose the best answer. **(10x1=10)**

I. What is probability of drawing two clubs from a well shuffled pack of 52 cards?
a) 13/51 b) 1/17 c) 1/26 d) 13/17

II. When two coins are tossed simultaneously, what are the chances of getting at least one tail?
a) 3/4 b) 1/5 c) 4/5 d) 1/4

III. If value of x for normal distribution is 35, mean of normal distribution is 65 and standard deviation is 25 then standardized random variable is
a) −1.5 b) −1.2 c) −1.7 d) −4

IV. Probability of second event in situation if first event has been occurred is classified as
a) series probability b) conditional probability c) joint probability d) dependent probability

V. In which of the following sampling methods are the "n" individuals subdivided into separate subpopulations with a common characteristic?
a) Stratified sample b) Cluster sample c) Systematic sample d) None of the above.

VI. Obtaining too many males in your sample would be an example of which of the following types of survey errors?
a) Measurement error b) Sampling error c) Coverage error d) Nonresponse error

VII. In probability theories, events which can never occur together are classified as
a) collectively exclusive events
b) mutually exhaustive events
c) mutually exclusive events
d) collectively exhaustive events

VIII. In normal distribution
a) Mean = Median = Mode
b) Mean < Median < Mode
c) Mean> Median > Mode
d) Mean ≠Median ≠Mode

IX. Which of the following sampling methods is a probability sample?
a) Chunk sample
b) Simple random sample
c) Quota sample
d) Judgment sample

X. According to the central limit theorem, the sampling distribution of the mean can be approximated by the normal distribution:
a) as the number of samples gets "large enough."
b) as the size of the population standard deviation increases.
c) as the sample size (number of observations) gets "large enough."
d) as the size of the sample standard deviation decreases.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Probability and Probability Distributions

Course Code: STAT-102 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Briefly answer the following questions (4*5=20)

i. Differentiate between discrete random variables and continuous random variables.

ii. Differentiate between Mutually Exclusive Events and Collectively Exhaustive Events.

iii. Differentiate between simple random sampling and stratified sampling.

iv. Differentiate between type I and type II error.

v. Explain the central limit theorem.

Q3. Thirty random observations are taken from each of the following distributions and the sample mean calculated. Find, in each case, the probability that the sample mean exceeds 5.

a) X is the number of telephone calls made in an evening to a counseling service, where $X \sim Po(4.5)$.

b) X is the number of heads obtained when an unbiased coin is tossed nine times.

(10)

Q4. a) The masses, in grams, of thirteen ball bearings taken at random from a batch had a mean of 24.9231 and a variance of 5.74. Calculate a 95% confidence interval for the mean mass of population supposed normal, from which these masses are drawn.

b) The amount of nicotine, in milligrams, in a cigarette of a certain brand is normally distributed with mean μ and standard deviation 2.5. A random sample of 10 cigarettes yielded a mean nicotine value of 18.4. Test the null hypothesis $\mu = 17.8$ against the alternative hypothesis $\mu \neq 17.8$ at the 10 % significance level.

(10)

Q5. a) A ball is drawn at random from a box containing 6 red balls, 4 white balls and 5 blue balls. Determine the probability that the ball drawn is

i. Red

ii. White

iii. Blue

iv. Not red

v. Red or white

b) What is probability that a card chosen at random from a standard deck of cards will be either a Jack or a Diamond?

(10)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Statistics-II

Course Code: STAT-103, STT-12314 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 Define the following: (20)

(i) Moment generating function

(ii) Baye's theorem

(iii) Mathematical expectation

(iv) Four properties of Normal distribution

(v) Poisson distribution

Q.3 If 3 books are picked at random from a shelf containing 6 novels, 4 poems books and a dictionary, what is the probability that (05)

(a) the dictionary is selected,

(b) 2 novels and 1 poem book are selected?

Q.4 The probability that a married man watches a certain T.V. show is 0.4 and the probability that his wife watches the show is 0.5. The probability that a man watches the show given that his wife does, is 0.7. Find the probability that (05)

(a) a wife watches the show, given that her husband does;

(b) At least one person of a married couple will watch the show.

Q.5 A continuous random variable X that can assume values between 2 and 5 has density function given by f (x) = A (1 + x) (05)

Find (a) A (b) median (c) $P(3 \le X < 4)$

Q.6 The IQs of 1000 applicant to a certain college are approximately normally distributed with a mean of 110 and a standard deviation of 15. If the college required an IQ of at least 95, how many of these students will be rejected on this basis? (05)

Q.7 Derive Mean-deviation about median for normal distribution (μ, σ). (05)

Q.8 For a Poisson distribution P (X = 1) = 0.3650 and P (X = 2) = 0.1606 find P (X = 3) (05)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

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Signature of Supdt.:

Paper: Statistics-II

Course Code: STAT-103, STT-12314 Part – I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

Q.1 Encircle the correct answer in the following. (10)

I. The joint probability of two dependent events A and B is:
(a) $P(A) + P(B) - P(A \cap B)$ (b) $P(A)P(B)$
(c) $P(A)P(B/A)$ (d) $P(A) + P(B)$

II. **P (A) = 0.65 P (B) = 0.45, which of the following statements is true**
(a) A and B are dependent (b) A and B are mutually exclusive
(c) A and B are not mutually exclusive (d) A and B are independent

III. If X and Y are two independent variables, then Var (X-Y) is equal to
(a) Var (X) - Var (Y) (b) Var (X) + Var (Y) – 2 cov (X, Y)
(c) Var (X) + Var (Y) (d) None of above

IV. The Cumulative distribution fuction of a random variable X denoted by F (a) is defined as
(a) $F(a) = P(X \le a)$ (b) $F(a) = P(X \ge a)$
(c) $F(a) = P(X = x)$ (d) None of above.

V. For binomial distribution b (x; 12, 0.6), the mean is:
(a) 6 (b) 7.2
(c) 2.88 (d) 1.70

VI. A binomial distribution may be approximated by a Poisson distribution when:
(a) n is large and P is small (b) n is small and P is large
(c) Both n and P are small (d) Both n and P are large

VII. Variance of a hyper geometric distribution , h (x; N, n, K) is:
(a) nP (b) nPq
(c) $nPq\left(\frac{N-n}{N-1}\right)$ (d) None of these

Where $P = \frac{K}{N}$, $P + q = 1$

VIII. A continuous probability distribution is not represented by:
(a) A graph (b) A table
(c) A Mathematical function (d) A density function

IX. For a normal distribution with mean 40 and variance 10, how much area will be scanned to left of X = 40
(a) 0.65 (b) 0.5
(c) 0.95 (d) Zero

X. In a normal distribution $N(\mu,\sigma)$ Quartile deviation is equal to:
(a) $\frac{4}{5}\sigma$ (b) $\frac{2}{3}\sigma$
(c) 2σ (d) 0.95σ

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Business Statistics
Course Code: STAT-121 / BUS-12133 Part – II **Time: 2 Hrs. 45 Min. Marks: 50**

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 Define the following: **(20)**

(i) Median and Mode

(ii) Absolute and Relative measures of dispersion

(iii) Co-efficient of skewness

(iv) Regression and correlation

(v) Consumer price index number

Q.3 Following is the frequency distribution for the weight of some pieces of luggage. **(10)**

Classes:	7 – 9	10 – 12	13 – 15	16 – 18	19 – 21	22 – 24
Frequency:	2	8	14	19	10	6

(a) Compute Bowley's Co-efficient of skewness
(b) Co-efficient of variation

Q.4 The following data (codded) shows the amount of sugar obtained (Y) in a certain process at various temperature (X) **(10)**

X:	10	11	12	13	14	15	16	17	18	19	20
Y:	81	78	85	98	95	89	86	102	93	92	105

Obtained linear regression Y on X and correlation Co-efficient between Y and X.

Q.5 The following data represent the number of packages of 4 popular brands of cigarettes sold by a super market on 6 randomly selected days. **(10)**

Brand	A	21	35	32	28	14	47
	B	35	42	27	41	19	33
	C	45	60	33	36	31	40
	D	32	53	29	42	40	53

Perform an analysis of variance, at the 0.05 level of significance and determine whether or not the 4 brands sell, on the average, the same number of cigarettes at this super market.

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Business Statistics

Course Code: STAT-121 / BUS-12133 Part–I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig. .....

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

I. **The number of occurrences of a data value is called:**

(a) Frequency (b) Cumulative frequency

(c) Relative frequency (d) All of above

II. **The value that occurs most often in a set of data is called the**

(a) Mean (b) Median

(c) Mode (d) Weight mean

III. **In a positively skewed distribution, the mean is always:**

(a) Smaller than the median (b) Equal to the median

(c) Larger than the median (d) Equal to the mode

IV. **Which one of the fllowing is not a measure of dispersion**

(a) Range (b) Standard deviation

(c) Second quartile (d) Quartile deviation

V. **If the tail of a frequency curve is to the right, the co-efficient of skewness is**

(a) Zero (b) Positive

(c) Negative (d) None of the above

VI. **The strength of a linear relationship between Y and X is measured by**

(a) Correlation Co-efficient (b) Regression Co-efficient

(c) Co-efficient of determination (d) None of above

VII. **In the regression $Y = \alpha + \beta X + \in$, X and Y variables are:**

(a) Both random (b) X is fixed and Y is random

(c) X is random and Y is fixed (d) Both fixed

VIII. **The consumer price index is basically**

(a) A fixed weight index (b) A Laspeyre's index

(c) None the above (d) Both of the above

IX. **A random variable is also known as a:**

(a) Chance variable (b) Stochastic variable

(c) Variate (d) All of above

X. **A discrete probability distribution may be represented by:**

(a) A table (b) A mathematical function

(c) A line graph (d) All of above

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Shairi Isnaf – Tareef o Tafheem – I

Course Code: URDU-103 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر۲۔ درج ذیل سوالات کے مختصر جواب لکھیے۔ (۲۰=۲x۱۰)

(۱) نعت کی تعریف لکھیے۔

(۲) غزل کسے کہتے ہیں؟

(۳) مطلع کسے کہتے ہیں؟

(۴) میر کی شامل نصاب غزلوں میں سے ایک کا مطلع لکھیے۔

(۵) غالب کی شامل نصاب غزلوں میں سے کسی ایک کا مقطع لکھیے۔

(۶) قصیدے کے اجزا کے صرف نام لکھیے۔

(۷) ظفر علی خان کی نعت کا کوئی شعر لکھیے۔

(۸) مقطع کسے کہتے ہیں؟

(۹) مطلع ثانی سے کیا مراد ہے؟

(۱۰) شامل نصاب مثنوی کے نمایاں کرداروں کے صرف نام لکھیے۔

سوال نمبر۳۔ درج ذیل اشعار کی تشریح کیجیے نیز شاعر کا نام بھی لکھیے۔ (۱۰=۲x۴+۲)

(الف) جو تعلیم توازن آپ نے دی ہے زمانے کو
اسی سے آدمیت کا ہر اک جوہر چمکتا ہے
مہکتا ہے گلِ اخلاق کی خوشبو سے ہر آنگن
ضیائے سیرتِ سرکارؐ سے ہر گھر چمکتا ہے

(ب) اس نازنیں نے جب سے کیا ہے وہاں قیام
گلزار بن گئی ہے زمین دکن تمام
اچھا ہے اہلِ جور کیے جائیں سختیاں
پھیلے گی یوں ہی شورش حب وطن تمام

سوال نمبر۴۔ درج ذیل پر مختصر نوٹ لکھیے۔ (۱۰=۲x۵)

(۱) مرثیہ (۲) غزل

سول نمبر۵۔ مثنوی نگاری پر تفصیلی اظہارِ خیال کیجیے۔ (۱۰)

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Shairi Isnaf – Tareef o Tafheem – I

Course Code: URDU-103 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

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ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

سوال نمبر ا: نوٹ: کسی ایک جواب پر (✓) کا نشان لگائیں

(i) ''غزل اور مطالعہ غزل'' کے مصنف کا نام ہے:

(ا) سید عابد علی عابد (ب) سجاد باقر رضوی (ج) ڈاکٹر عبادت بریلوی (د) ڈاکٹر محمد فخر الحق نوری

(ii) چھ مصرعوں پر مشتمل ہوتا ہے:

(ا) مخمس کا بند (ب) مسدس کا بند (ج) رباعی (د) معشر کا بند

(iii) شعر مکمل کیجیے۔ وہ دل نواز ہے لیکن نظر شناس نہیں

(ا) اب ان دنوں کا تصور بھی میرے پاس نہیں (ب) مرا علاج مرے چارہ گر کے پاس نہیں

(ج) مرے مزاج کو آسودگی بھی راس نہیں (د) مرے لیے کوئی شایان التماس نہیں

(iv) درج بالا مصرعے کے شاعر کا نام ہے:

(ا) ناصر کاظمی (ب) میر تقی میر (ج) مرزا غالب (د) علامہ اقبال

(v) ڈاکٹر مسیح الزماں کی تصنیف ہے:

(ا) اردو مثنوی کا ارتقا (ب) اردو غزل کا ارتقا (ج) اردو قصیدے کا ارتقا (د) اردو مرثیے کا ارتقا

(vi) حفیظ تائب کس صنفِ شعر کی وجہ سے معروف ہیں:

(ا) نعت (ب) گیت (ج) حمد (د) ماہیے

(vii) میر انیس کی وجہ شہرت صنفِ شعر ہے:

(ا) غزل (ب) گیت (ج) مرثیہ (د) دوہا

(viii) مصرع مکمل کیجیے۔ میں کون ہوں اے ۔۔۔۔۔ سوختہ جاں ہوں۔

(ا) ہم نفسو (ب) ہم نفساں (ج) ہم رکاب (د) ہم آواز

(ix) صنف مثنوی سے تعلق ہے:

(ا) البیان (ب) بیان و بدیع (ج) علم البیان (د) سحر البیان

(x) ''قدیم اصناف شعر'' کے مصنف کا نام:

(ا) ڈاکٹر خواجہ محمد زکریا (ب) ڈاکٹر وحید عشرت (ج) ڈاکٹر وحید قریشی (د) ڈاکٹر ظہور اعوان

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Bayan o Badi Arooz
Course Code: URDU-104 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

سوال نمبر2: درج ذیل سوالات کے مختصر جوابات تحریر کریں۔ (4x5=20)

i. مجازِ مُرسل کے لغوی اور اصطلاحی معانی کو مدِ نظر رکھتے ہوئے اس کی تعریف بیان کیجیے۔

ii. صنعتِ تلمیح کی وضاحت دو شعری مثالوں کے ساتھ کیجیے۔

iii. علمِ عروض میں زحاف سے کیا مراد ہے؟

iv. تقطیع کسے کہتے ہیں؟ کوئی سے چار اُصولِ تقطیع بیان کیجیے۔

سوال نمبر3: درج ذیل سوالات کے جامع جواب تحریر کریں۔ (10x3=30)

i. تشبیہ سے کیا مراد ہے؟ اس کے ارکان اور اہم اقسام کی نشان دہی شعری مثالوں کے ساتھ کیجیے۔

ii. صنعتِ حُسنِ تعلیل کی وضاحت تین شعری مثالوں کے ساتھ کیجیے۔

iii. بحر ہزج مثمن سالم کے ارکان تحریر کریں، نیز ان ارکان کی وضاحت دو شعری مثالوں سے کیجیے۔

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

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Signature of Supdt.:

Paper: Bayan o Badi Arooz

Course Code: URDU-104 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

سوال نمبر1: کسی ایک جواب کا انتخاب کیجیے۔ کاٹ کر یا مٹا کر لکھا گیا جواب غلط شمار کیا جائے گا۔

1- بلاغت کی رُو سے ایک ہی بات کو مختلف طریقوں سے ادا کرنا کیا کہلاتا ہے؟

(الف) علمِ بیان (ب) علمِ بدیع (ج) علمِ معانی (د) ایجاز

2- تشبیہ کی وہ نوعیت جو حواس سے متعلق ہے، کیا کہلاتی ہے؟

(الف) تشبیہ مرسل (ب) تشبیہ موکد (ج) تشبیہ عقلی (د) تشبیہ حِسی

3- استعارہ کے لغوی معنی کیا ہیں؟

(الف) پوشیدہ بات (ب) اُدھار لینا (ج) مانند قرار دینا (د) واضح بات کرنا

4- "اُردو کا عروض" کے مصنف کون ہیں؟

(الف) نثار اکبر آبادی (ب) عابد علی عابد (ج) حبیب اللہ غضنفر (د) افتخار شفیع

5- "بحر الفصاحت" کے مصنف کون ہیں؟

(الف) عابد علی عابد (ب) نجم الغنی (ج) سجاد بیگ مرزا (د) جابر علی سید

6- تشبیہ کے ارکان کتنے شمار کیے گئے ہیں؟

(الف) ایک (ب) دو (ج) تین (د) پانچ

7- صنعتِ توریہ کس صفت کا دوسرا نام ہے؟

(الف) ایہام (ب) ترصیع (ج) تلمیح (د) سیاقۃ الاعداد

8- "حدائق البلاغۃ" کا ترجمہ کس نے کیا؟

(الف) الطاف حسین حالی (ب) نجم الغنی (ج) انشا اللہ خان (د) امام بخش صہبائی

9- "تسہیل البلاغت" کے مصنف کون ہیں؟

(الف) نجم الغنی (ب) شمس الدین فقیر (ج) سجاد بیگ مرزا (د) جابر علی سید

10- "شعر اور فنِ شعر" کے مصنف کون ہیں؟

(الف) نثار اکبر آبادی (ب) عابد علی عابد (ج) نجم الغنی (د) حبیب اللہ غضنفر

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Functional Urdu
Course Code: URDU-111 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

اس پرچہ کو مہیا کی گئی جوابی کاپی پر حل کریں۔

سوال نمبر2: درج ذیل سوالات کے اختصار کے ساتھ جوابات دیں۔ (5x4=20)

1. صنعت تلمیح سے کیا مراد ہے؟ مثالوں سے واضح کریں۔
2. صنعت لف و نشر کیا ہے؟ دو مثالیں دیں۔
3. تشبیہ اور استعارہ میں کیا فرق ہے؟ مثال دیں۔
4. تجاہل عارفانہ سے کیا مراد ہے؟ واضح کریں۔

سوال نمبر3: درج ذیل سوالات کے تفصیلی مگر جامع جوابات تحریر کیجیے۔ (10X3=30)

1. اصطلاحات سے کیا مراد ہے؟ یہ کیسے بنائی جاتی ہیں؟
2. انٹرویو نویسی پر مفصل نوٹ لکھیں۔
3. ترجمہ نویسی کے لیے کن کن امور کو مد نظر رکھنا ضروری ہے؟

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Functional Urdu
Course Code: URDU-111 Part – I (Compulsory) **Time: 15 Min. Marks: 10**

Roll No. in Fig. .....
Roll No. in Words. .....
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Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.
Division of marks is given in front of each question.
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سوال نمبر1: مندرجہ ذیل میں سے درست جواب پر درست (✓) کا نشان لگائیں۔ کاٹ کر یا مٹا کر لکھا گیا جواب غلط تصور ہو گا۔ (1x10=10)

1. اردو۔۔۔۔۔۔۔۔۔۔۔۔۔۔زبان کا لفظ ہے۔
(الف) فارسی (ب) عربی (ج) سنسکرت (د) ترکی

2. اردو کا مطلب۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔ہے۔
(الف) زبان (ب) فلسفہ (ج) لشکر (د) ان میں سے کوئی نہیں

3. غزل کا آخری شعر۔۔۔۔۔۔۔۔۔۔۔۔۔ کہلاتا ہے۔
(الف) مطلع (ب) مقطع (ج) تخلص (د) ان میں سے کوئی نہیں

4. صنعت تلمیح میں۔۔۔۔۔۔۔۔۔۔۔ کی طرف اشارہ کیا جاتا ہے۔
(الف) ماضی کے واقع (ب) دکھ (ج) درد (د) ان میں سے کوئی نہیں

5. "نازکی اس کے لب کی کیا کہیے پنکھڑی اک گلاب کی سی ہے" اس شعر میں۔۔۔۔۔۔۔۔۔ کا استعمال ہے۔
(الف) استعارہ (ب) تشبیہ (ج) تلمیح (د) ان میں سے کوئی نہیں

6. ناچ نہ جانے۔۔۔۔۔۔۔۔۔ ٹیڑھا۔
(الف) پاؤں (ب) آنگن (ج) دامن (د) زاویہ

7. لکھے۔۔۔۔۔۔۔۔۔۔۔۔۔ پڑھے خود آ۔
(الف) موسیٰ (ب) موسا (ج) خود (د) ان میں سے کوئی نہیں

8. لڑکا۔۔۔۔۔۔۔۔۔۔۔ میں ڈھنڈورا شہر میں۔
(الف) ہاتھ (ب) آنکھ (ج) نظر (د) بغل

9. کہاں۔۔۔۔۔۔۔۔۔۔۔۔۔ کہاں گنگو تیلی۔
(الف) بادشاہ (ب) بھوج (ج) راجہ بھوج (د) راجہ

10 آم کے آم۔۔۔۔۔۔۔۔۔۔۔۔۔ کے دام
(الف) گٹھلیوں (ب) روپوں (ج) پیسوں (د) ان میں سے کوئی نہیں

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Roll No. .....

Paper: Zoology-II (Chordate Diversity)
Course Code: ZOOL-103, ZOL-12302 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question No. 2. Write short answer of the following questions (2X10=20)

I. What are the general features of Hemichordata?

II. What are Altricial chicks?

III. What is Archaeopteryx?

IV. What is Aestivation?

V. Any three characteristics of Echinoderms?

VI. What is cloaca?

VII. What is route based navigation?

VIII. What is parietal eye?

IX. What regions of the amphibians brain integrate sensory information and initiate motor responses?

X. What is buccopharyngeal respiration?

Question No. 3. Explain the following questions? (10X3=30)

I. Write a detailed note on class Echinodermata?

II. Write a detailed note on chondrichthyes?

III. Write a detailed note on feathers in birds?

UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

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Signature of Supdt.:

Paper: Zoology-II (Chordate Diversity)

Course Code: ZOOL-103, ZOL-12302 Part – I (Compulsory) Time: 15 Min. Marks: 10

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

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Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Lung fishes belong to the class
   a. Chondrichthyes
   b. Osteichthyes
   c. Cephalaspidomor
   d. Myxini
2. Terrestrial animals may face temperature extremes from
   a. -65°C to 40°C
   b. -65°C to 60°C
   c. -65°C to 50°C
   d. -65°C to 70°C
3. The most important cue for birds during migration is
   a. Temperature
   b. Rainfall
   c. weather
   d. photoperiod
4. Caecilians belong to order
   a. Caudata
   b. Gymnophiona
   c. Anura
   d. Squamata
5. Emperor penguins are mostly found in
   a. Antartica
   b. Arctic
   c. Australia
   d. Austria
6. *Sinoris* was discovered from
   a. America
   b. Iraq
   c. Pakistan
   d. China
7. The number of species in order Anura is
   a. 1500
   b. 3500
   c. 2500
   d. 4500
8. All birds are
   a. viviparous
   b. oviparous
   c. ovoviviparous
   d. parthenogenetic
9. Total species of Monotremes in Australia are
   a. 4
   b. 5
   c. 6
   d. 7
10. The most important sense in Amphibians is
   a. hearing
   b. vision
   c. smell
   d. touch