Third	Semester – 2019 B.S. 4 Years Pr		Roll No. in Fig
APER: Arabic-III ourse Code: ARB-201/ISL-21421	Part–I (Compul		IME: 15 Min. IARKS: 10
<u>Attempt this</u> <u>Please encircle the correct option</u> <u>This Paper will be collected</u>	Paper on this Q on. Division of ma l back after expir	rks is given in t	front of each question.
حسل کریں۔	کواسی شیٹ (Sheet)	چے کے سوالات	-40-1
م الله الله الله الله الله الله الله الل		10x1_	سوال نمبر ا_ درست جواب کاانتخاب کریں.
		: جالاتا ب	ا۔جواسم فعل کے واقع ہونے کاسبب بتلائے
د) مفعول فيه	ج)مفعول لاجليه	ب)مفعول معه	الف) مفعول به
			۲_عاش النبي صلى الله عليه وسلم بعد وفاة جده
د) مع امه	ج) مع والده	ب) مع عمه عباس	الف) مع عمر الي طالب
			س _ر رباعی مزید فیہ کے اوزان میں سے ہے
د)استفعال	ج) تفعلل	ب) تفاعل	الق) تفعل
1			م ایبانغل جوفاعل ہے تمام ہو جائے۔۔۔۔
د)لازم	5) 200	ب)مضارع	الف) ماضي
			۵_وفت پر دلالت کرنے دالااسم کہلاتاہے
د)ظرف مكان	ج)ظرف زمان	ب) نائب الفاعل	الف)فاعل
			۲_مفاعیل خمسہ ملک ہے ہے۔
د) فغل	ج) نائب الفاعل	ب)فاعل	الف) مفعول مطلق
			ے۔استقلال کاوزن ہے
د)انعال	ج)استفعال	ب)اوصاف	الف)افتعال
	2 X		٨_انتساب بابكامعدرى
د)انفعال	ج)افتعال	ب) تفعيل	الف)افعال
		a	۹_حتی۔۔۔۔ین سے ہے
د)حروف غيير عامله	ج)مشبه بالفعل	ب)جواز مالمضارع	الف) نواصب المصارع
د)افعال تعجب		ب)انعال ناقصه	• ا۔ اضبح۔ امسی کن افعال میں ہے ہے الف)افعال مقاربہ

Third Semester – 2019 Examination: B.S. 4 Years Program

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PAPER: PAPER: Arabic-III Course Code: ARB-201/ISL-21421 Part – II

MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

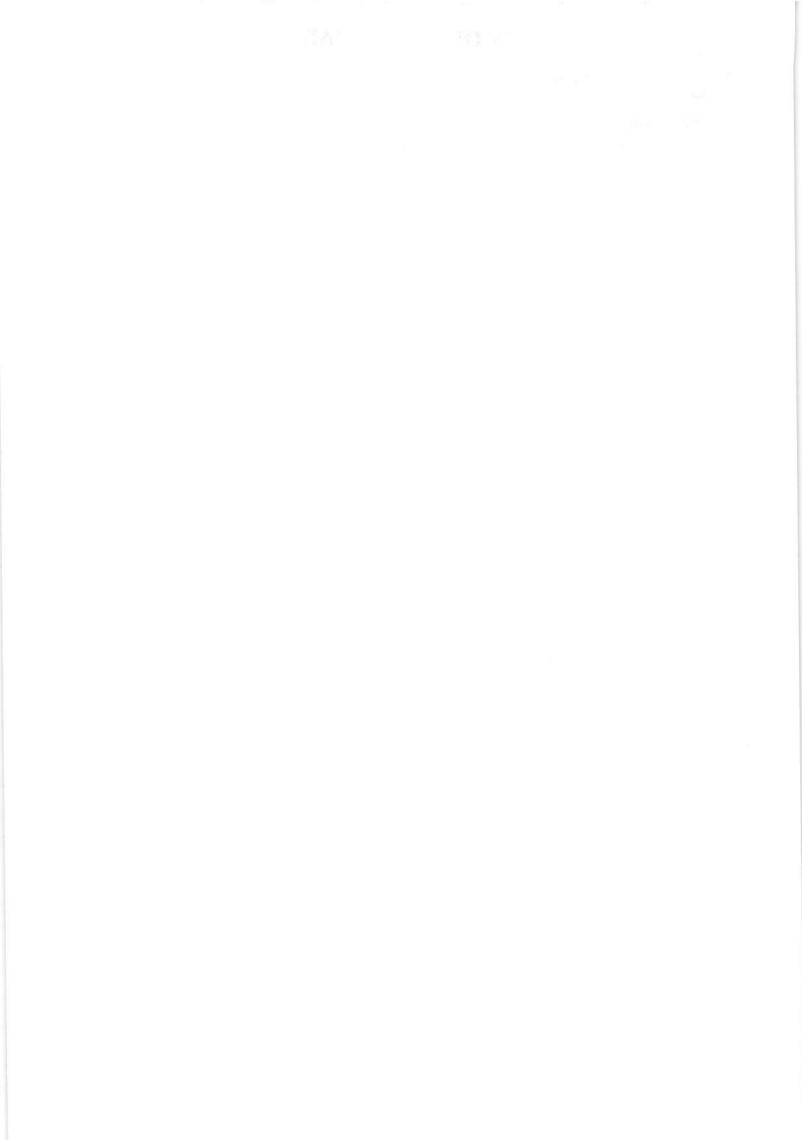
ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

اس پر یے مسین شامل سوالات کے جوابات اپنی امتحانی کابی مسین درج کریں۔

سوال نمبر ۲ ۔ یتیج دیے گئے اجزائیں سے پاری کے جوابات تحریر کریں۔5x4 ۱۔ نائب الفاعل کی تعریف کریں اور دو مثالیں دے کر داضح کریں۔ ۲۔فتح الولد الباب ، انزل الله الکتاب، جملوں کو مجہول میں تبدیل کریں۔ سر ثلاثی مجر دکی تعریف کر کے کوئی چار مثالیں لکھیں۔ ۲۔ خبر کی اقسام ککھیں ۵۔ المسلم اخو المسلم لایظلمہ و لایحقرہ، ترجمہ کریں

) سوالات کے جوابات دیں۔3x10 سوال نمبر ۲ بر جواز م المضارع کی تعریف اور عربی مثالیں لکھیں۔ سوال نمبر ۲ مثلاثی مزید فیہ کے اوزان مع امثلہ تحریر کریں۔ سوال نمبر ۵ مدوق الفاکھة کے عنوان پر عربی زبان میں مکالمہ لکھیں

UNIVERSITY OF THE PUNJAB Roll No. in Fig. Third Semester - 2019 Roll No. in Words. **Examination: B.S. 4 Years Program** MAX. TIME: 15 Min. **PAPER:** Arabic Language-II MAX. MARKS: 10 Course Code: ARB-211/GEN-21136 Part-I (Compulsory) Signature of Supdt.: Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above. س پر چے کے سوالات کواسی شیٹ (Sheet) پر حسل کریں۔ حصب معروضي سوال نمبرا: (الف) مذکر کے مؤنث اور مؤنث کے مذکر تحریر کریں: (۵) 81.01 نَعْرَهُ نايم _ ____ __ __ __ (ب) واحد کے جمع اور جمع کے واحد تحریر کریں: (۵) اَدْنَاعْ ----- Torolé 5, ilb Eik . ---- egio



TINIVERSI THE PUNJAB Third Semester – 2019 **Examination: B.S. 4 Years Program** Roll No. MAX. TIME: 2 Hrs. 45 Min. **PAPER:** Arabic Language-II MAX, MARKS: 50 Course Code: ARB-211/GEN-21136 Part - II ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANS ا پہ ہے مسیس شامسل سوالات کے جوابات اپنی امتحانی کابی مسیس درج کریں۔ حصب انشائيم سوال ممر ٢: دررج ذیل والات کے جرابات عربی میں تحریر کریں : (١٠) (i) بِمَاذَا تَكْتُبُ / تَكْتُبُيْنَ ؟ (ii) مَثْنَى تَعُوْدُ / تَعُوُدِ بْنَ الَّي بُيْتِكَ م (iii) هَلْ تَمْزَجُ / تَمْزَحِيْنَ مَعَ الْأَسْتَاذِ p (iv) مَاذَا تَلْبَسُ / تَلْبَسِيْنَ ؟ (v) مَنْ خَرَجَ مِنْ الْمَنْزِلِ ؟ سوال نمبر : مناسب الفاظ سے خالی جگر پر کریں : $() \cdot)$ (i) هٰذِهِ عَالِيَه ؟. (ٱشْجَارٌ ، نُوَافِذٌ ، رِجَالٌ) (ii) الْمُدَرِّسُ الْكِتَابَ (أَخَذَتْ ، تَأْخُذُ ، يَأْخُذُ) (١١١) تُلْعَبُ فِي الْجَدِيْقَةِ. (ٱلظُّلَابُ ، ٱلْبَنَاتُ ، ٱلْجُدَامُ) (iv) أَنَا بَعِيدَدًا · (أَرْمِيْ ، نَرْمِيْ ، تَرْمِيْ) (v) آخِي يُحِبَّنِني وَ أَحِتَبُهُ (نُحْنُ ، أَنْتِ ، أَنَا) سوال نمبر : درج ذیل حدیث مبارک کا اردویا انگریزی میں ترجم کیج : (۱) خَالَ رَسُولُ اللهِ متى الله عليه وسلم : مَنْ سَرَّهُ أَنْ يُمَدَّ لَهُ فِي عُمْرِهِ وَ يُوسَعَ لَهُ فِي رِزُقِهِ وَ يُدْفَعَ عَنْهُ مَيْتَهُ السُّوْعِ فَلْيَتَّق رَلَّهُ ، فَلْيَصِلُ رَحْمَة . (إقلب الورقة)

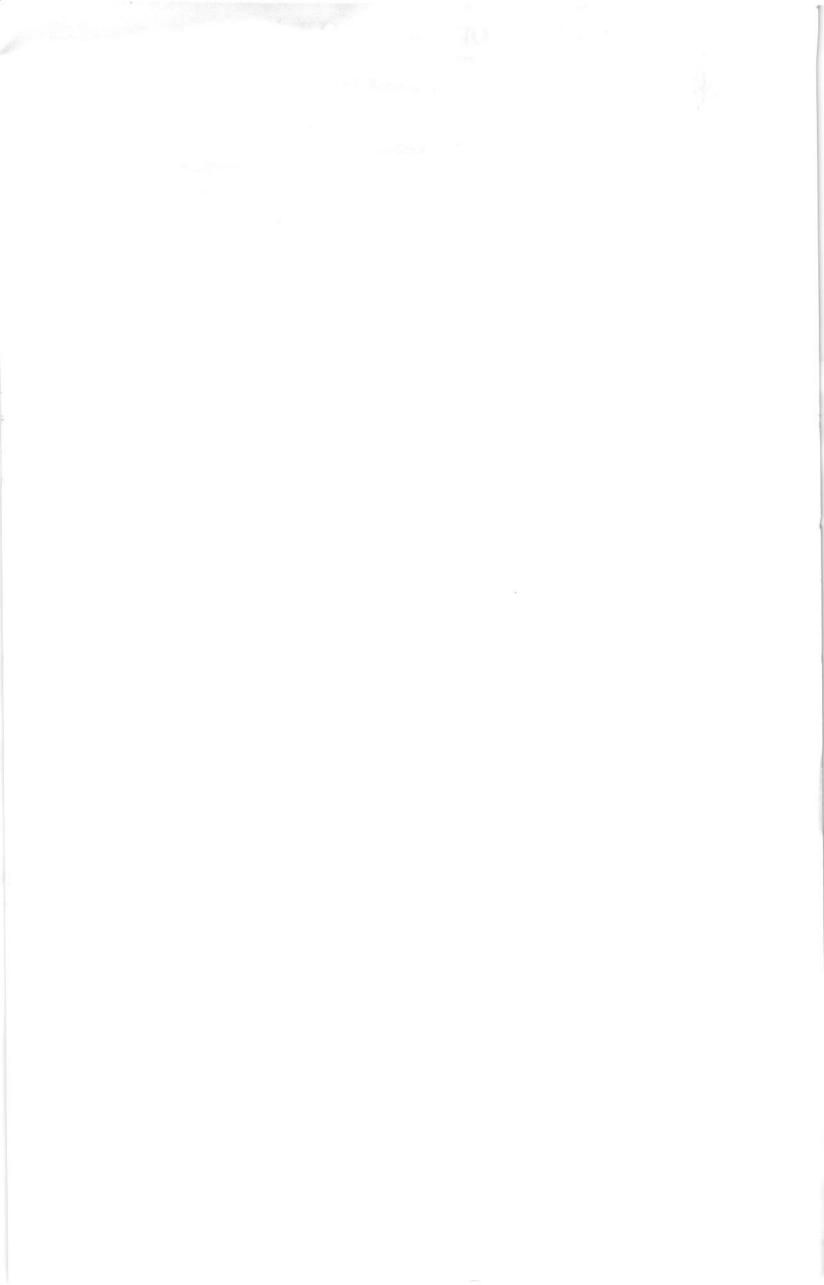
سوال نمبره ؛ درج ذيل عبارت كا اردم يا انكريزى مي ترجم كرين : (١) و هُذَا قَامَ الشَّيْطَانُ وَ قَالَ لِلشَّابِ : يَاسَتِدِى ، أَنَا لَا أُرِيْدُ أَنَ أَمْنَعَكَ مِنْ قَطْعِ الشَّجَرَةِ ، وَ لَكِنْ فَقَطُ أُرِيْدُ أَنْ تَتُرُكُهَا لِيُوْمِ أَوْ يُوْمَيْنِ ، لِانَ لِى فِيْهَا مَطْلَبًا ، فَإِذَا حَصَلَ مَطْلَبِى فَلَكَ أَنْ تَفْعَلَ مَا تُرُيْدُ . وَ أَنْتَ الْمُسَنِّتَ الْتَ اللَّنَ وَ رَحِمْتَنِى ، فَإِذَا اللَّهُ عَلَى اللَّهُ مِنْ مَتَعَانَ مَا تَرُيْدُ . وَ أَنْتَ هذه الشَّجَرَة ، وَ أَعْلَمُ مَطْلَبِى مَطْلَبِى مَتَعَانَ مَتَوَا لَهُ مَعْتَلُهُ مَا تَرُيْدُ . وَ أَنْتَ مَوْ وَعَالَ مِنْ اللَّهُ مَعْلَكُ أَنْ تَعْعَلَ مَا تَرُيْدُ . وَ أَنْتَ وَ قَالَ فِي نُفْتِهِ : اَقْطَعُ هٰذِهِ الشَّجَرَةَ بَعْدَانَ أَصْدَ الْتُعَانَ مَوْ مَعْذَا مَعَانَ مَا تُعْتَلُ مَا تُرُيْدُ . وَ أَنْتَ وَ قَالَ مِنْ اللَّهُ مَعْلَكُ أَنْ أَوْ يَعْمَانُ السَّابَ ، فَوَاذَا حَصَلَ مُطْلُبِي فَلْكَ أَنْ تُفْعَلُ مَن وَ وَقَالَ مِنْ اللَّهُ مَعْذَا اللَّعَانَ مَعْانِ السَّابِ الْعَانَ اللَّاسَانِ السَّابَ ، وَيُ السَّابَ السَّابَ ، وَ وَعَالَ مِنْ اللَّهُ مَعْنَا مَامَ الشَّعْرَانِ وَ وَعَانِي الْتَعْتَابِ الْتَعْانَ الْنَابُ مُنْهُ الْنُ الْنَعْتَ الْنَا قُطْعَانُ وَ الْقُورَ مَعْكَانُ وَ وَالَيْهُ مُنْ الْتُعْرَابُ وَ الْعَانَ وَ يُوْمِيْنُ مَنْ الْتُولُقُ الْمُعَانُ الْنَابُ ، وَ وَعَالَ فَلْكُولُ مَلْكَ الْنَعْتَلُ مَا اللَّهُ مُ وَ وَالَتَ وَ الْمُعْتَابِ الْمُعَانَ الْمُومَ الْحَدَى مُعْذَا الْمُعْتَانِ الْمُعْتَابِ الْ

سوال نمبر ۲: درج ذیل کلمات کو اس طرح ترتیب دیں کہ مفیر جملے بن جائیں: (i) جَدِ یُدًا ، حَامِدٌ ، دَرْسًا ، قَرَلَ

(ii) ٱلْخُبْزَ، ٱلْخَادِمَةُ، ٱكْلُتُ
 (ii) مَكْدَ ، تُسُافِرُ ، أَنْتَ ، إِلَى
 (iii) مَكْدَ ، تُسُافِرُ ، أَنْتَ ، إِلَى
 (iv) ٱلْوَطَنِ ، ٱلْإِيْمَانِ ، حُتَّ ، مِنْ
 (v) إِلَى ، هَدِيَّةَ ، أَرْسَلَتُ ، لَكَ

UNIVERSITY OF THE PUNJAB Roll No. in Fig.

Examination: B.S. 4 Years Prop	gram
PAPER: Arabic Language Course Code: ARB-212/GEN-21113 Part-I (Compulsory	MAX. TIME: 15 Min. MAX. MARKS: 10 Signature of Supdt.:
<u>Attempt this Paper on this Que</u> <u>Please encircle the correct option. Division of mark</u> <u>This Paper will be collected back after expiry o</u>	s is given in front of each question.
ی کواس شیٹ (Sheet) پر حسسل کریں۔	اسس پہ پچ کے سوالات
$10 = 20 \times 0.5$ Choose the right work	السؤال الأول: اختر الكلمة الصحيحة : rd
حمرُ، أصفرُ)	١- عَلَم باكستان(أخضرُ، أ
	٢- (ذلك ، تلك، أولئك) سبورةٌ.
	۳۔ (ذلك ، تلك، أولئك) مدرستي
	، - (ذلك ، تلك، أولئك) جدارنا.
	٥- (ذلك ، تلك، أولئك) قلمٌ.
	۲- (هذا، هذه، هؤلاء) سيارته
	۷۔ (هذا ، هذه ، هؤلاء) دراجتها
	٨- تلك (ساعتك ، ساعتك) ياخالد.
سيارتهن)	۹۔ أبي مهندسؓ ، هذه (سيارتها، سيارته ، م
	.۱۰ (دخل، دخلا، دخلوا)
	۱۱۔ تلك أشجار (طو
لوال، طويلة، طويل)	١٢- هؤلاء رجال
یثار ، کثیرة ، کثیر)	١٣- الغرف وواسعة (ك
جتهدة، مجتهدتان، مجتهدون)	١٤ بنت الأستاذ (م
ا ، هي ، هم)	١٠قريب من المسجد (أنا
ا ، نلك ، أولئك)	١٦ أسماء الطلاب (هذا
اقلام، قلم ، القلم)	١٧- فوق المكتب كثيرة (أ
(سعيد ، مريم ، التلميذ)	١٨- اسمه
(هن ، هي ، هو)	١٩ معلمة في المدرسة
	٢٠- رحمة الله (واسعة ، واسع ، وسيع)



Third Sen	OF THE PUNJAB nester – 2019 <u>S. 4 Years Program</u> Part – II	Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50
ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE AN	SWER SHEET PROVIDED
متحسانی کابی مسیں درج کریں۔	سل سوالات کے جوابات اپنی	اسس پر ہے مسیں شام
Attempt t	الموجزة: he short Questions	السؤال الثاني: أجب عن الأسئلة
10 Correct the err	ors in the following sentences	صحح الأخطاء في الجمل التالية
- في باكستان صناعة طيب		۱ – هذه قلمی
يفتح الخادمة الباب	٥- شربت الطفل الحليب	٤ - أنت تلميذ الأحمد
– تلك أخى	٨- تلك ثلاث أبواب	٧ تلك أبي
Myrrie I see the art		 ۱ - الشمس طالع
10 Arrange the word	ts to make sentences تصبح جملاً	السؤال الثالث: رتب الكلمات ل
		(1) هذه . الأستاذ . غرفة
	بة	(٢) المدرسة . من . التلميذ . قرير
		(۳) هذا . ضيق . شارع
		(٤) التلامذة .كتب . جديدة
	جدار	 ه. فوق . السعودية . ال
		(٦) الأستاذ . الولد . يعلم
		(٧) العلم . لون . أخضر
		(٨) صغيرة . هذه . النافذة
		(٩) هذه . نظيفة . مدينة
		(١٠) أسماء . هذه . الطلاب
10		السؤال الرابع: ترجم الى الأردية
	فرحانةً بالنور	تشقشق الطيور
	ما أجمل الضياء	تقول في سرور
	و الجدول الصغير	والحقل والزهور
	ما أجمل الضياء	تقول في سرور
	والرجل الكبير	والولد الصغير
	ما أجمل الضياء	يقول في سرور
	يشرق بالبهاء	ما أجمل الضياء
(إقلب الورقة)	ما أجمل الظياء	في الأرض و السماء

السؤال الخامس : ترجم الى الأردية Translate into Urdu قال رسول الله صلى الله عليه وسلم : لا يدخل الجنة من كان في قلبه مثقال حبة من كبر فقال رجل: إن الرجل يحب أن يكون ثوبه حسناً ونعله حسناً قال. إن الله جميل، يحب الجمال الكبر بطر الحق وغمط الناس

السؤال السادس: أجب عن الأسئلة التالية باللغة العربية Answer the following questions in Arabic Language (1) هل ولده طيب ؟

- (۲) من تلك؟
- (۳) ماذا شرب الولد ؟
- (٤) متى تعود من المدرسة؟
- (°) كم عدد أصابيع يدك؟

10

10

Third Semester – 2019

Examination: B.S. 4 Years Program

•••••		
Roll	No	
	TIME: 2 Hrs. 45	
MAX.	MARKS: 50	

PAPER: Psychology-I (MAS) Course Code: APSY-211 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of the following:

 $(2 \times 10 = 20)$

1. What is the difference between sensation and perception?

- 2. What is memory?
- 3. What are important points of Behaviorism?
- 4. Briefly explain the process of creativity.
- 5. What is Insight learning?
- 6. What is James-Lange theory of emotion?
- 7. What is motivation?
- 8. What is the difference between absolute threshold and differential threshold?
- 9. Define language.
- 10. What is control group in experimental research method?

Q.3. Give brief answers.

 $(3 \ge 10 = 30)$

- 1. What is Psychology? Briefly describe its schools of thoughts.
- 2. Give a detailed account of types of thinking with examples.
- 3. Explain in detail the types of motives with examples.

JANNA T	SITY OF THE PUN hird Semester – 2019 ation: B.S. 4 Years Progra	Roll No.	ïg in Words
APER: Psychology-I (MAS ourse Code: APSY-211 F	S) Part–I (Compulsory)	MAX. TIME: 15 Min. MAX. MARKS: 10	\ \Signature of Supdt
Attempt	t this Paper on this Questi	on Sheet only.	estion
Please encircle the correct	t option. Division of marks i llected back after expiry of	time limit mentioned abov	e.
This Paper will be co	netteu back atter expiry or		
			(1 10 10)
Q.1. Encircle the right an	nswer, cutting and overwi	iting is not allowed.	(1x10=10)
1 John Watson is cons	sidered to be the founder of		
a).Structuralism		b). Functionalism	
		d). Gestalt	
2 In correlation metho	od, if increase in one variable is	correlated with decrease in oth	er variable then
such relationship is	as:		
a). Positive relation		b). Negative relationship	
) Lunara relations	ship	d). Zero relationship	
2. The minimum leve	l of energy which can stimulate :	any sense organ is known as	
a). Threshold	for energy materials	D). Absolute un conord	
c). Sensory thresho	ld	d). Differential threshold	1
c). Sensory thresho	re called		
		b). Hallucinations	
a). Delusions c) Illusions		d). Weak eyesight	
c) musions	oning, the weakening of the con	ditioned response in the absen-	ce of the
5. In classical conditi unconditioned stim	ulus is called		
		b). Acquisition	1
• a). Extinction		d). Discrimination	
c). Generalization	ciency in an organism's body is		
	clency in an organism's body to	b). Drive	
a). Motive		d). Primary motive	
c). Need	i - Labor goo occur due to		
	tional changes occur due to	b). Pons	
a). Limbic System	1	d). Thalamus	
c) Cerebellum			20 *** a
8. The memory of a	specific event or autobiographic	b). Episodic memory	
a). Semantic mem		d). Implicit memory	
c). Procedural me	are the most basic ingredient of	thought which comprised of c	ategories of
9.	are the most basic ingredient of	mought which comprised or a	Ŭ,
	ideas with common properties.	b). Cognitions	
a). Imageries		d). Concepts	
c). Languages		u). Concepts	
10. Doing volunteer	work is an example of	b). Intrinsic motivation	1
a). Extrinsic moti	ivation	d). Social approval	•
c) Social support		u). Sociai approvai	



Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Cognitive Psychology Course Code: APSY-231 Part-I (Compulsory) MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1.	Encircle the right answer, cutting and overwriting is not allowed.	(1x10=10)
	1- The Candle Problem was first described by	
	a) Dunker b) Newell c) Moray d) Humphreys	
	2- The transfer from on problem to is called analogical transfer.	
	a) Another problem b) its solution c) escape d) none of these	
	3- The term 'Cognitive Psychology' was coined by	
	a) Neisser b) Tolman c) Chomsky d) none of these	
	4 is strongly associated with consolidation of memories.	
	a) Hippocampus b) Broca's Area c) Brain Stem d) Reticular Formation	
	5 effect describes that decisions are influenced by how the choices are stated.	
× .	a) Stating b) Framing c) Decision d) none of these	
	6- Schnieder and Shiffrin (1977) indicated that can be	
	achieved with practice.	1 1 2 *
	a) Selective Attention b) Divided Attention c) Covert Attention d) none of these	
	7- proposed that overall experience is determined by combining	
	basic elements of experience.	
	a) Functionalism b) Gestalt School c) Structuralism d) none of these	
	8- In 1948talked about cognitive map.	
	a) Tolman b) Chomsky c) McCarthy d) Watson	
	9- Conditioning can result intomemories.	
5	a) Explicit b) Episodic c) False d) none of these	
	10- The process by which short-term memories are converted into long-term	
	memories is named as:	

a) Shaping b) Retention c) Consolidation d) none of these



Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No	
MAX. TIME: 2 Hrs. 45	Min.
MAX. MARKS: 50	

PAPER: Cognitive Psychology Course Code: APSY-231 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of the following:

 $(2 \times 10 = 20)$

 $(3 \times 10 = 30)$

- 1. Draw the flow diagram of Broadbent's filter model.
- 2. Why Hippocampus is important?
- 3. What is primacy effect?
- 4. What is Wernickes's aphasia?
- 5. What is mnemonic strategy?
- 6. What is retroactive interference?
- 7. What is hemispheric specialization?
- 8. What is a Geon?
- 9. What is top-down processing?
- 10. What is color constancy?

Q.3. Give brief answers.

- 1. Write a comprehensive note on Syllogism.
- 2. Explain Linguistic Determination in detail.
- 3. Write a comprehensive note on long-term memroy.



Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Environmental Psychology (Revised) Course Code: APSY-232 Part-I (Compulsory)

Dry) MAX. MARKS: 10

MAX. TIME: 15 Min.

Signature of Supdt.:

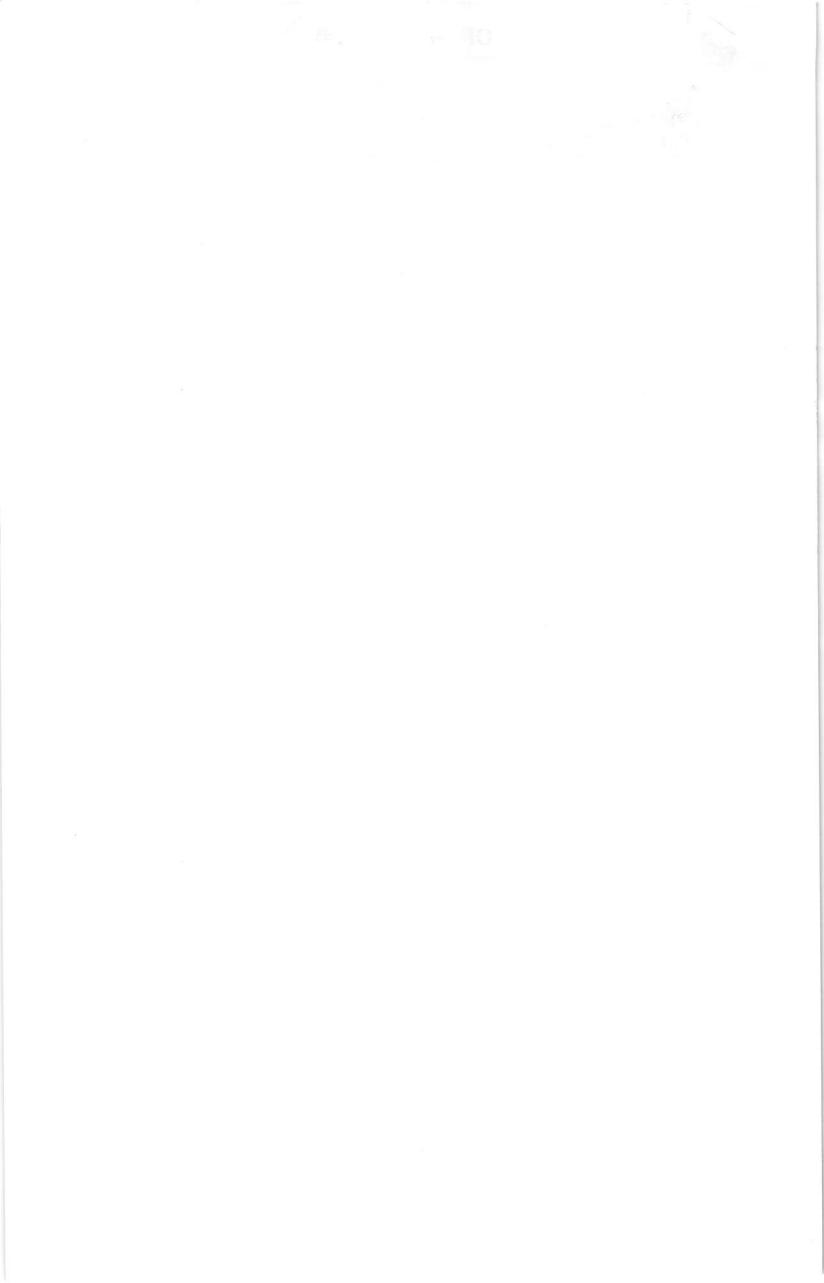
Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (1

(1x10=10)

1. The state of mental exhaustion similar to overload is called _____

- a. Perceived loss of control
- b. Learned helplessness
- c. Directed attention fatigue
- d. Aggression
- 2. A condition or situation in which environmental stimulation is controlled to a minimum is called
 - a. Experimental study
 - b. Simulation technique
 - c. Sensory deprivationd. Sensory stimulation
- 3. Appraising pesticides may invoke perceived threat to one's health can be an example of
 - appraisal. a. Performance
 - b. Harm or loss
 - c. Challenge
 - d. Threat
 - 4. Cognitive maps in which environment has become coded in an organized and flexible representation that resembles a 'bird's eye' view are known as _____
 - a. Spatial maps
 - b. Sequential maps
 - c. You-are-here maps
 - d. Way-finding maps
 - 5. Change in response to a stimulus is
 - a. Adjustment
 - b. Adaptation
 - c. Acclimatization
 - d. Habituation
- 6. According to Baker's ecological perspective, those who meet the membership requirements of a behavior setting and who are trying to become a part of it are called ______
 - a. Performers
 - b. Non-performers
 - c. Applicants
 - d. Candidates
- 7. Snowfall decreases driving on roads but increases winter sports is an example of
 - a. Determinism
 - b. Possibilism
 - c. Probabilism
 - d. Habituation
- 8. Framing environmental justice issues in terms of discrimination against justice for disadvantaged groups is called
 - a. Environmental justice
 - b. Environmental equality
 - c. Environmental press
 - d. Environmental racism
- 9. Procedures or design components that are based on empirical observations rather than opinions or values are regarded as:
 - a. Positive theory
 - b. Normative theory
 - c. Folk-design tradition
 - d. Grand design tradition
- 10. Spaces that encourages social interactions are known as
 - a. Social Isolation
 - b. Sociopetal
 - c. Sociofugal
 - d. Asocial



Third Semester – 2019 Examination: B.S. 4 Years Program

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			. 45 Min.	

PAPER: Environmental Psychology (Revised) Course Code: APSY-232 Part – II

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. (Short Questions) (4 marks each)

- 1. Explain the difference between high density and crowding.
- 2. What is a cognitive map? Explain its elements.
- 3. Explain the various zones or distances of Personal space.
- 4. How Arousal perspective explains environment-behavior interaction?
- 5. Briefly explain the effects of environmental stressors.

Q3. 3 (Brief Questions) (10 marks each)

- . What is Environmental Psychology? Explain in detail the future environmental challenges posed to humanity.
- 2. Explain in the detail the planning and design for human behavior.
- 3. Explain in detail effects of disasters and human adjustments to it.

(5x4=20)

(3x10=30)

Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Principles of Marketing Course Code: BBA-201/BUS-21349 Part-I (Compulsory) MAX. MARKS: 10

MAX. TIME: 15 Min.

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.

(1x10=10)**0.1.** Encircle the right answer, cutting and overwriting is not allowed.

is defined as a social and managerial process by which individuals and 1. organizations obtain what they need and want through value creation and exchange.

- a. Advertising
- b. Selling
- c. Marketing
- d. Business
- 2. Consumer research, product development, communication, distribution, pricing, and service are all core ______activities.
- a. Exchange
- b. Marketing
- c. Management
- d. Operational
- 3. Which customer question is answered by a company's value proposition?
- a. "Why should I buy your brand rather than a competitor's?"
- b. "How does your brand benefit me and society?"
- c. "What are the costs and benefits of your brand?"
- d. "What value the company get out of the proposition?"
- 4. The concept is aligned with the philosophy of continuous product improvement and the belief that customers will choose products that offer the most in quality, performance, and innovative features.
- a. Product
- b. Customer
- c. Marketing
- d. Advertising
- 5. When customers don't know what they want or don't even know what's possible, the most effective strategy is marketing.
- a. Customer-driven
- b. Customer-driving
- c. Societal
- d. Ambiguous
- 6. The set of tools a firm uses to implement its marketing strategy is called the
- a. Promotion mix
- b. Product mix
- c. Marketing mix
- d. Organizational mix

P.T.O.

7. Which of the following provides an answer to these questions: What is our business? Who are our customers? What do our customers value? What should our business be?

a. Objectives and goals

b. Company Vision

c. A mission statement

d. A business portfolio

8. When compared to consumer markets, business markets are

a. Approximately the same

b. Smaller

c. Huge

d. Somewhat larger

9. The demand for many business goods and services tends to change more, and more quickly, than the demand for consumer goods and services does. This is referred to as ______ demand.

a. Fluctuating

b. Derived

c. Inelastic

d. Elastic

10. Product improvements, product modifications, and original products can all be classified as

a. Pioneer products

b. New products

c. Product concepts

d. Product ideas



Third Semester – 2019 Examination: B.S. 4 Years Program

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Roll No.	
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MAX. TIME: 2 Hrs. 45 Min	n
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MAX. MARKS: 50	

PAPER: Principles of Marketing Course Code: BBA-201/BUS-21349 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

 $(10 \ge 2 = 20)$

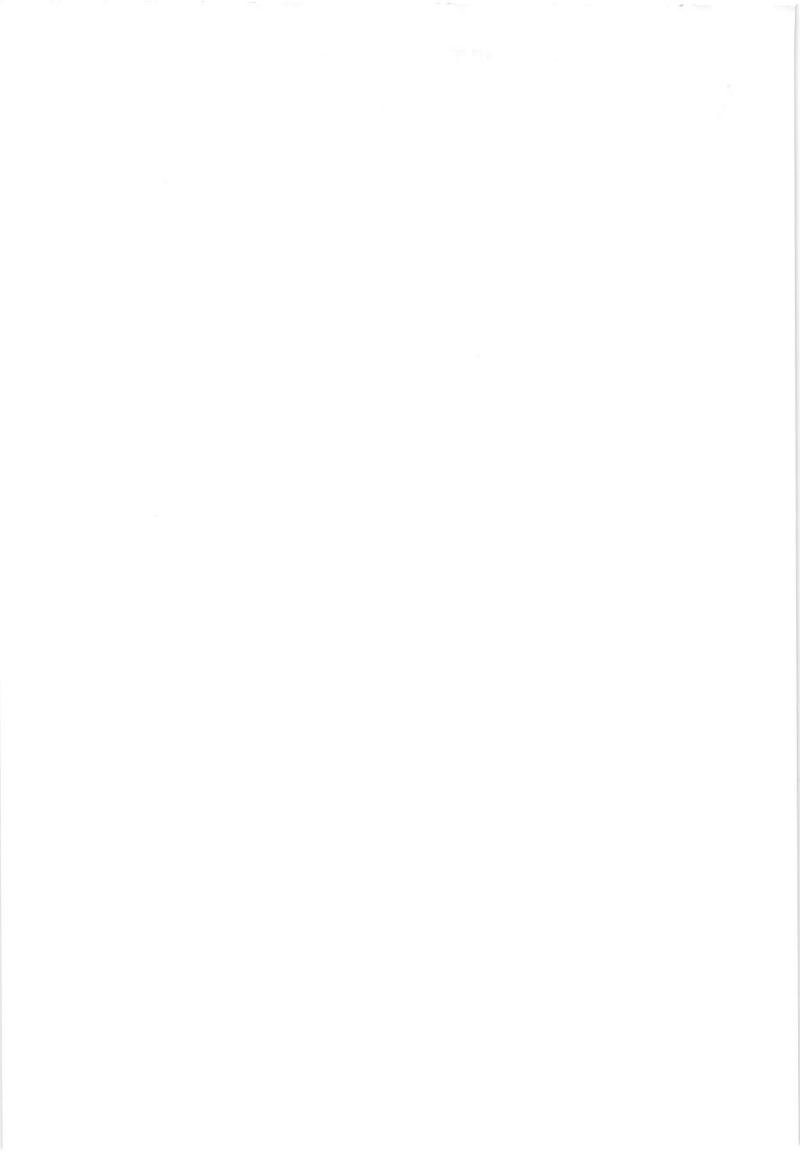
- 1. What are different types of buying decision behaviours? Explain them.
- II. What is product adoption process? Explain its different stages.
- III. What is customer relationship management (CRM)? Give one example of some company who is doing CRM.
- IV. Explain the concept of Customer Driven Marketing Strategy.
- V. What is market segmentation? What are different parameters to segment a population?
- VI. What is the mechanism to measure the return on marketing investment?
- VII. Differentiate between Micro and Macro environment. Give one example of each environment.
- VIII. Discuss the problems faced in international marketing research, and the strategy to overcome these problems.
- IX. Discuss the new product pricing strategies.
- X. What is competitive marketing intelligence? Explain its sources.

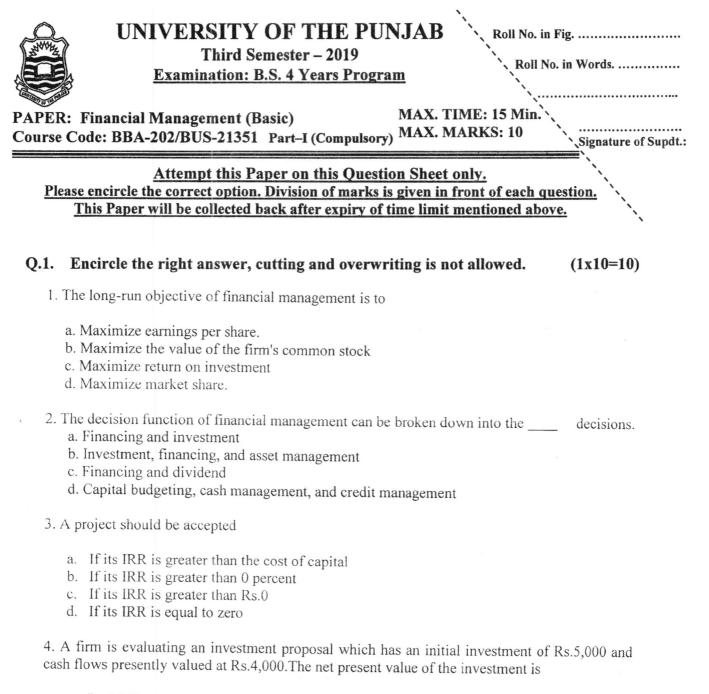
Long Questions $(3 \times 10 = 30)$

Q. 3 What do you understand by Price Adjustment Strategies? Explain all the strategies with the help of relevant examples. (2+8=10)

Q. 4 What is meant by New Product Development Process? Explain each step of this process in detail. (2+8=10)

Q.5 Define marketing research. Explain the process of marketing research. Describe the process to use marketing information. (2+6+2=10)





a. -Rs.1,000

b. Rs.0

- c. Rs.1,000
- d. Rs.1.25

5. Which of the following best describes liquidation value?

- a. The price a security "ought to have" based on all factors bearing on valuation.
- b. The amount a firm could be sold for as a continuing operating business.
- c. The amount of money that could be realized if an asset or a group of assets is sold separately from its operating organization.
- d. The market price at which an asset trades

6. An annuity which is for _____ time, called perpetuity.

a. Limited

b. Fixed

c. Unlimited

d. None of the above

7. A special form of ownership having a fixed periodic dividend that must be made prior to payment to ordinary shareholders :

a. Common stock

b. Preferred stock

c. Constant growth stock

d. None of the above

8. The conflict of interest between management and shareholders is called

a. Agency issue

b. Financial issue

c. Critical issue

d. None of the above

9. The formula of debt ratio is:

a. Total assets / total liabilities

b. Total liabilities / total assets

c. Debentures / Total equity

d. None of the above

10. _____ control the financial activitics of the firm.

a. Controller

b. Owner

c. Treasure

d. None of the above

Third Semester - 2019 **Examination: B.S. 4 Years Program**

• •
Roll No.
MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

 $(5 \ge 4 = 20)$

 $(3 \times 10 = 30)$

PAPER: Financial Management (Basic) Course Code: BBA-202/BUS-21351 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

- 1. What is the money market? How does it work?
- 2. What is the purpose of cash budget? What role does the sales forecast play in its preparation?
- 3. What relationship exists between the size of the standard deviation and the degree of asset risk?
- 4. What is meant by the term leverage? How are operating leverage, financial leverage and total leverage related to the income statement?
- 5. What is the difference between the vertical merger and the horizontal merger? Explain with the help of examples.

Q.3. Questions with brief answers.

1. Zain Industries is in the process of choosing the better of two mutually exclusive capital expenditure projects namely M and N. The relevant cash flows for each project are given below. The firm's cost of capital is 14 percent.

	Project M	Project N
Initial investment	Rs. 28,500	Rs. 27,000
Year	Cash inflows	Cash inflows
1	Rs. 10,000	Rs. 11,000
2	Rs. 10,000	Rs .10,000
3	Rs. 10,000	Rs. 9,000
4	Rs. 10,000	Rs. 8,000

- a. Calculate each project's Payback Period.
- b. Calculate the Net Present Value (NPV) for each project.
- c. Based on above calculations, which project would you recommend?

2. (a) Suppose Rs.1000 bond has a price today of Rs.800, a coupon rate of 4%, and six years remaining to maturity. If interest is paid annually, calculate the bond's yield to maturity (YTM)

to the nearest whole percent using the hit and trial method. Estimate the bond's YTM using the approximate yield formula. Compare the two results. Marks 5

(b) Technex common stock pays an annual dividend of Rs. 1.80 per share. The required return on common stock is 12 %. Estimate the value of common stock under each of the following growth rate assumptions.

i. Dividends are expected to grow at an annual rate of 0% to infinity.

ii. Dividends are expected to grow at an annual rate of 5% to infinity.

Marks 5

3. Saeed Corporation is interested in measuring its overall cost of capital. Current investigation has gathered the following data. The firm is in 40 percent tax bracket.

Debt: The firm can raise an unlimited amount of debt by selling Rs. 1,000 par value, 10 percent coupon rate, 10-years bonds on which annual interest payments will be made. To sell the issue, an average discount of Rs. 30 per bond must be given. The firm also pays floatation costs of Rs. 20 per bond.

Preferred Stock: The firm can sell 11 percent (annual dividend) preferred stock at its Rs. 100per share par value. The floatation costs are expected to be Rs. 4 per share.

Common Stock: The firm's common stock has a par value of Rs. 80 per share. The firm expects to pay cash dividend of Rs. 6 per share next year. The firm's dividends have been growing at an annual rate of 6 percent and this rate is expected to continue in future. The stock will have to be under-priced by Rs. 4 per share and floatation costs are expected to be Rs. 4 per share.

Source of Capital	Weight
Long-term debt	40 %
Preferred Stock	15
Common Stock	45
Total	100 %

a. Calculate the specific cost of each source of financing.

b. Calculate the weighted average cost of capital (WACC) for the firm based on the above capital structure.

	UNIVERSITY OF THE Third Semester – 20 Examination: B.S. 4 Years	19	Roll No. in Words
	Cost Accounting Code: BBA-203/BUS-21348 Part–I (Compu	ilsory)	MAX. TIME: 15 Min. MAX. MARKS: 10
Pleas	Attempt this Paper on this se encircle the correct option. Division of 1	<u>marks is</u>	given in front of each question.
	This Paper will be collected back after ex	piry of t	me limit mentioned above.
•	Prime cost means:A. All Production CostsC. All Direct Production Costs	B. D.	All Indirect Production Costs (1 x 10 = None of the above
•	Direct material = Rs. 45,000; Direct wages = labour hours = 15,000; Machine hours = 30	Rs. 60,00 0,000; FC	0; Factory overheads = Rs. 90,000; Direct H Applied Rate on the basis of machine
	hours =? A. Rs. 6 per hour C. Rs. 1.5 per hour	B. D.	Rs. 3 per hour Rs. 0.5 per hour
3.	The method of remuneration that links the p	avment w	ith the hours worked, is called:
•	A. Time work method	B.	Piecework method
	C. Bonus method	D. •	None of the above
1.	Under which costing method cost of mat	terials is	charged to production in the order of
	purchases: A. First-in, First-out Method	В.	Last-in, First-out Method
	A. First-in, First-out MethodC. Average Cost Method	D.	None of the above
-	Carrying cost = 15%; Ordering cost = Rs. 9	ner order	Estimated Annual Requirement = 48,000
5.	units; Cost per unit = Rs. 4. The most econom	nical orde	r size is:
	A. 1,440,000 units		1,200 units
	C. 1,440 units	D.	12,000 units
6.	Journal entry to record the issue of direct ma	aterial fro	m store is:
	A. MaterialDr SupplierCr	В.	SupplierDr MaterialCr
	C. WIPDr MaterialCr	D.	FOHDr MaterialCr
7.	For an activity level of 10,000 units, Total c	ost is Rs.	200,000; for 15,000 units, Total cost is Rs.
	275,000. Calculate variable cost per unit usir		
	A. Rs. 15	В. D.	Rs. 10 Rs. 20
	C. Rs. 25		N3. 20
3.	Under-applied factory overheads occur wher A. Applied FOH exceed Actual FOH		Applied FOU average Rudgets of FOU
	A. Applied FOH exceed Actual FOHC. Actual FOH exceed Applied FOH	B. D.	Applied FOH exceed Budgeted FOH Actual FOH exceed Budgeted FOH
	e. Actual for exceed Applied For	D.	Actual I off exceed budgeted I off
9.			per hour: Rs. 5 e at basic rate: 50% time saved
	On a particular day, one employee finishes 1	50 units. l	His gross pay for the day will be:
	A. Rs. 40 C. Rs. 55	B. D.	Rs. 50 Rs. 45
LO.	A piece-work system of remuneration focuse A. Quality of output		Quantity of wall as quality of output
	C. Quantity of output	B. D.	Quantity as well as quality of output Neither on quality nor on quantity



Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Cost Accounting Course Code: BBA-203/BUS-21348 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers to the following:

(10x2 = 20 marks)

i. Define profit centre.

ii. What is service costing?

- iii. What are the components of conversion cost?
- iv. What is meant by safety stock?
- v. Write down any three differences in financial accounting and cost accounting.
- vi. What is meant by bonus schemes?
- vii. What is a standard cost?
- viii. Define semi-variable cost.
- ix. Define factory overheads.
- x. What is the difference between a fixed and a flexible budget?
- **Q.3.** A company uses process costing. The costs for 2nd department for January, 2019 were:

Costs of units received from 1st department Rs. 20,000 Cost incurred in 2nd department: Materials Rs. 21,816; Labor Rs. 7,776; Overheads Rs. 4,104

During the month, 2nd department received 5,000 units and transferred 4,000 units to 3rd department. At the end of the month, 1,000 units were in process.

The degree of completion of the work-in-process units was: 50% units were 40% complete and the balance units were 20% complete.

Required: Prepare cost of production report for the month.

(10 marks)

Q.4. Mudassar Industries has developed the following data to assist in controlling one of its inventory items:

Economic Order Quantity	1,000 kg	
Average Daily Use	100 kg	
Minimum Daily Use	80 kg	
Maximum Daily Use	120 kg	
Lead Time	7 days	

Required:

(i)	Order level
(ii)	Maximum inventory level

(iii) Minimum inventory level

(10 marks)

Q.5. Following are few figures taken from records of Mahnoor Industry:

Material purchased during the month = Rs. 265,000 Cost of goods sold for the month = Rs. 555,000 Factory overhead absorption rate = 75% of direct labour cost Inventory accounts showed the following opening and closing balances:

	January 01		January 31
Material	Rs. 15,500		Rs. 20,500
Work in process	Rs. 22,750		Rs. 25,600
Finished goods	Rs. 28,200	÷	Rs. 10,350

Required:

Prepare cost of goods manufactured and sold statement.

(10 marks)

			ement System -21131 Part-I	(Compulsory)	MAX. TIME: 1 MAX. MARKS	. 10	ture of Supd
PI	ease encircle		t this Paper or t option. Division		on Sheet only. given in front o	f each question.	
					ime limit mentio		
			togo see				
Q.1.	Encircle	the right a	nswer, cutting	and overwr	iting is not allo	wed. (1x10	=10)
1)	What is ful	1 form of S(QL Statement				
1,1)		ing Query Li		c. Sin	ple Query Langua	ge	
Ъ÷,	· · · · ·	e Query Lan		d. No	ne of the above	· · ·	
2)			Pattern matching	g		· ·	
	a) Betwee				sts operator	1 A A	а ^с 1,
5.0	b) Liked				ne of the above		
3)) You can add	a new row	using SQL in a dat				
	a) ADD			c. Alte			
	b) Delete			d. Rei			1
4)			ng about PRIMAR		t in SQL?		
			quely identifies e				
	b) Primary	key can be	made based on m	altiple columns			
			e made of any sin ontain a unique va				
5			ble statement is u				
	a) Delete	Column	b) Delete Const	raint c) De	lete Columns	d) All of the above	14
6			t the ORDER BY ke				, T
	a) Used to	o sort the res	sult-set in ascendi	ing or descendir	ng order		
					ng order by default		
					ng order by default		
	d) To sort	the records	in ascending orde	er, use the ASC I	(eyword.	n than which const	raint will
7				in the column	Age of table Person	n, then which const	
	a) Defaul	to AGE colur	b) Check	c) Not Null	d) None		
Q						ability, what is used?	?
1	a) SQLW		b) SQL Aliases	c) SQL LIKES		mments	
C) Logical ope						
	a) AND, C		b) && !!,;	c)#,\$,%	d) None d	of above	· 1,
1	LO) To specify	the number	of records to retu	ırn, which keyw	ord is used [,]		
	a) FIRST		b) TOP	c) START	d) ROW		
)	
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						×	



Third Semester – 2019 Examination: B.S. 4 Years Program

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Koll	No
MAX.	TIME: 2 Hrs. 45 Min.
MAX.	MARKS: 50

PAPER: Data Base Management System Course Code: BBA-204/GEN-21131 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

$(5 \ge 4 = 20)$

- 1. What is the difference between Sequential file system and Index Sequential File system?
- 2. Explain the concept of Entity and Relationship
- 3. What is meant by Referential Integrity?
- 4. What is the concept of Primary Key, Composite Primary Key and Foreign key?

5. What is the concept of ACID properties of Transaction Processing?

Q.3. Questions with brief answers.

$(3 \times 10 = 30)$

1. Normalize the Given Table up to 3NF

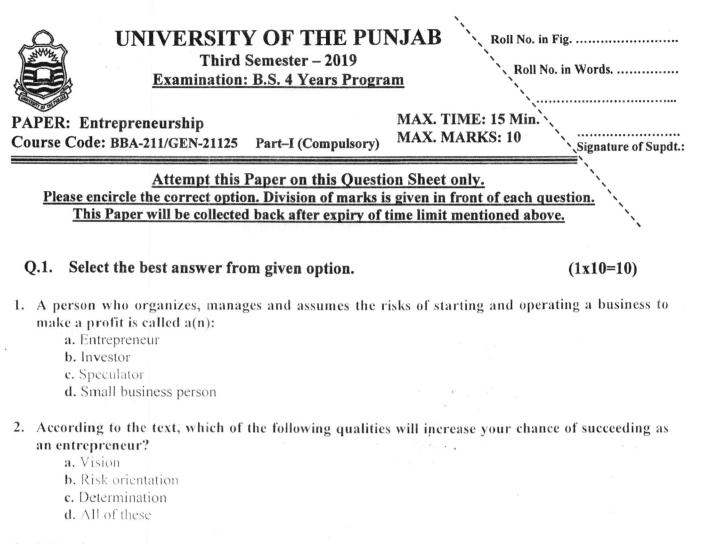
INV #	Date	Customer ID	Customer Name	Product No	Description	Price
1	2 Dec	C1	Ali & Co	P1	Shirt	500
2	4 Dec	C1	Ali & Co	P2 ·	Pent	1000

2. What is the concept of Master Detail Tables explain with example?

3. What is data mining explain with example?



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3. Which of the following was not cited as a reason for starting a new business?

- a. Independence
- **b.** Challenge
- c. Profit
- d. Increase of leisure time

4. Mr. X is employed in a corporation to launch new products. He is a(n):

- a. Entrepreneur
- b. Intrapreneur
- c. Innovator
- d. Franchisor

5. Which of the following would be included in the business plan?

- a. Capital required
- b. Marketing plan
- c. Management team
- d. All of these

6. The form of business organization that has the largest sales volume is the:

- a. Partnership
- b. Corporation
- c. Cooperative
- d. None of these

P.T.O.

7. Which of the following is an advantage of a sole proprietorship?

- **a.** Ease of starting a business
- b. Being your own boss
- c. Pride of ownership
- d. All of these
- 8. Organizations in a _____ mobilize their resources toward selling, advertising and other promotional efforts:
 - a. Sales orientation
 - **b.** Marketing orientation
 - c. Product orientation
 - d. Production orientation

9. The first step in the marketing process is:

- a. Identify need
- **b**. Test marketing
- c. Conduct research
- d. Build a relationship with customers

10. The two most dominant trends in business are:

a. Downsizing and restructuring

- b. Technology and globalization
- c. Strategic alliances and joint ventures
- d. None of these



Third Semester – 2019 Examination: B.S. 4 Years Program

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Roll No
AAX. TIME: 2 Hrs. 45 Min.
AAX. MARKS: 50
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PAPER: Entrepreneurship Course Code: BBA-211/GEN-21125 Part – II

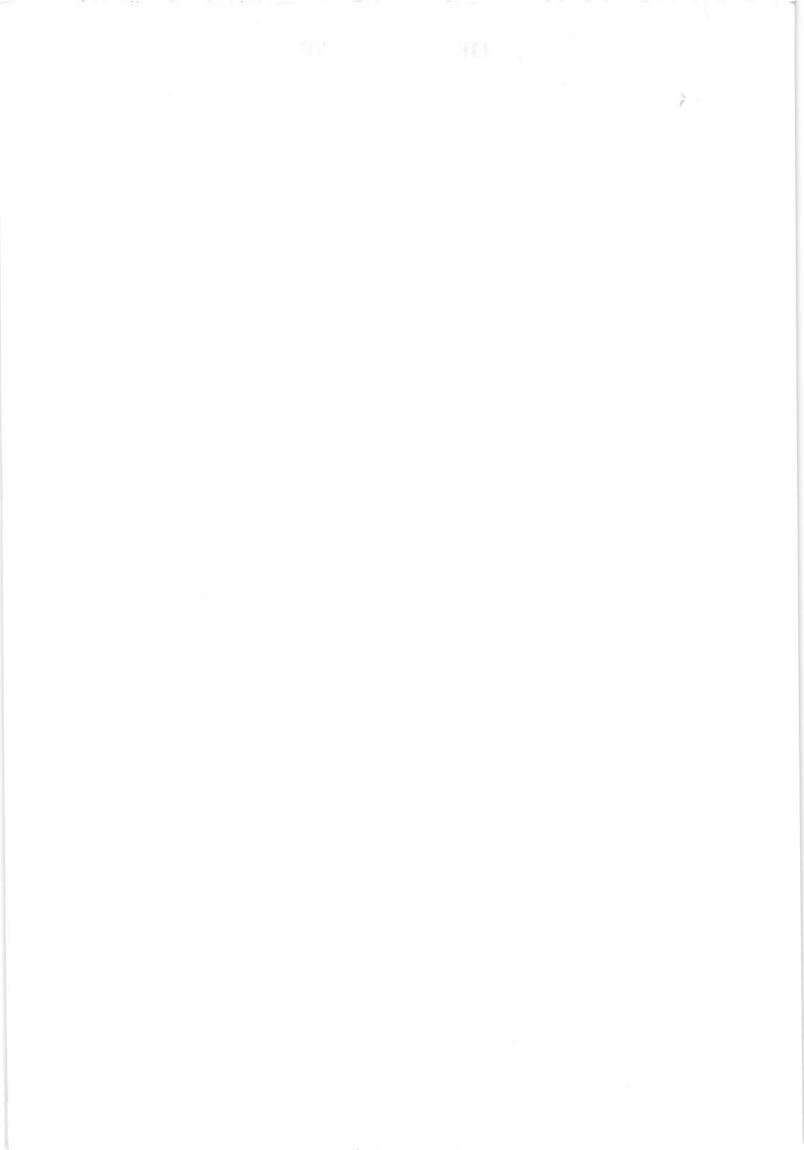
ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. 2 Give Short answers of the following questions:

 $(10 \times 2 = 20)$

- 1. What is Entrepreneurship?
- 2. Define estate planning?
- 3. What points we should keep in mind to study the market?
- 4. What is S Corporation?
- 5. Define business process reengineering?
- 6. What is SMEDA?
- 7. Enlist stages of product life cycle.
- 8. What is an idea?
- 9. Write down any four advantages of corporation?
- 10. What do you mean by operation planning?

Q.3 Explain the steps or procedure for buying an existing business.	(10)
Q.4 Explain the characteristics of entrepreneurs?	(10)
Q.5 What is Franchising? Explain the merits and demerits of franchising.	(10)



	OF THE PUN mester – 2019 .S. 4 Years Progra		``\	Fig . in Words
PAPER: Biology Course Code: BIO-112 Part–I (Con	npulsory)	MAX. TIM MAX. MAR		Signature of Supdt.:
<u>Attempt this Pa</u> <u>Please encircle the correct option.</u> <u>This Paper will be collected ba</u>		given in from	nt of each qu	
Q.1. Encircle the right answer, cu	utting and overwri	ting is not a	llowed.	(1x10=10)
1. Pectin is an example of			· · · · · ·	
A). Disaccharides	B). Polysaccharides			
C). Monosaccharides	D). Oligosaccharide	S		
2. DNA is the carrier of				
A). Ribozymes	B). Genetic Markers			
C). Nuclear Material	D). Genetic Message			
3. The protection of an internal envi which of the followings?	ironment from the harms of	fluctuations is the	definition of	
A). Osmoregulation	B). Excretion			
C). Thermoregulation	D). Homeostasis			
4. Endoplasmic reticulum (ER) is a co	omplex, memb	rane system.		
A). Two dimensional	B). Four Dimensional			
C). Three Dimensional	D). Ten Dimensions			
5. Plants growing in waterlogged soils	s and aquatic environments co	ontain ti	ssues.	
A). Storage parenchyma	B). Pseudoparenchym			
C). Aerenchyma	D). Chromoplast Pare			
6. A nerve is a				
A). Bundles of axons and dend	rites of axons B), coll	ection of neurons		
C). Concentration of dendrites		ne of these		
7. Thyroid glands produce				
A). Tri-iodothyronine	B). T3, T4 and calciton	iin		
C). Calcitonin	D). Tetraiodothyronine			
8. Mitosis is divided into				
A). Interphase	B). Karyokinesis			
C). Cytokinesis	D). B and C			
9. Which of these is incorrectly matched				
A). Protoplast- plant cell engineer	ring B), DNA	A polymerase- PCR		
C). DNA ligase- mapping human		S-DNA finger print		
10. Which of the biomass has been increa				
A). Savana	B). Grassland			
C). Desert	D). Coniferous			





Third Semester – 2019 Examination: B.S. 4 Years Program

Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

PAPER: Biology Course Code: BIO-112 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

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

- 1. What is the Difference between CNS and PNS?
- 2. What do you know about biodiversity? Also define acid rain?
- 3. What is the difference between endangered species and threatened species?
- 4. Differentiate between dominance and epistasis.
- 5. Why Interphase is defined as a resting phase?
- 6. What is the function of RNA polymerase in transcription?
- 7. Define Photoperiodism and its effects.
- 8. Write down the names of flower parts with labeled diagram.
- 9. Write down main differences between auxins and Cytokinins.
- 10. What is neuron? Draw its structure.

Q. No. 3: Define Osmoregulation. Describe Osmoregulation in plants as well as in animals. (10)

Q. No. 4: Define specialized plant cells. Also explain significance of secondary growth. (5)

Q. No. 5: Write a note on Hypothalamus and Pituitary Gland. (5)

Q. No. 6: What is a Gene? Also describe how DNA encodes protein structure? (5)

Q. No. 7: Why meiosis is called reductional division and what is its significance? (5)





Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No	
MAX. TIME: 2 Hrs. 45 Min MAX. MARKS: 50	

PAPER: Biology-II Course Code: BIO-211/21116 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

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

- 1. Define Population Genetics.
- 2. What is the difference between Deforestation and Afforestation?
- 3. List different types of Ecosystems.
- 4. Differentiate between Symbiosis, Parasitism and Mutualism.
- 5. What is difference between rough and smooth endoplasmic reticulum?
- 6. Distinguish between Osteocytes and Osteoblasts.
- 7. What are the functions of parathyroid gland?
- 8. What are the commercial applications of auxins?
- 9. How is a seed formed?
- 10. What are amphibious plants? Write down their main characteristics.

Q. No. 3: Define and draw Cell cycle. (05)

Q. No. 4: Write a note on Succession with its types and stages. (5)

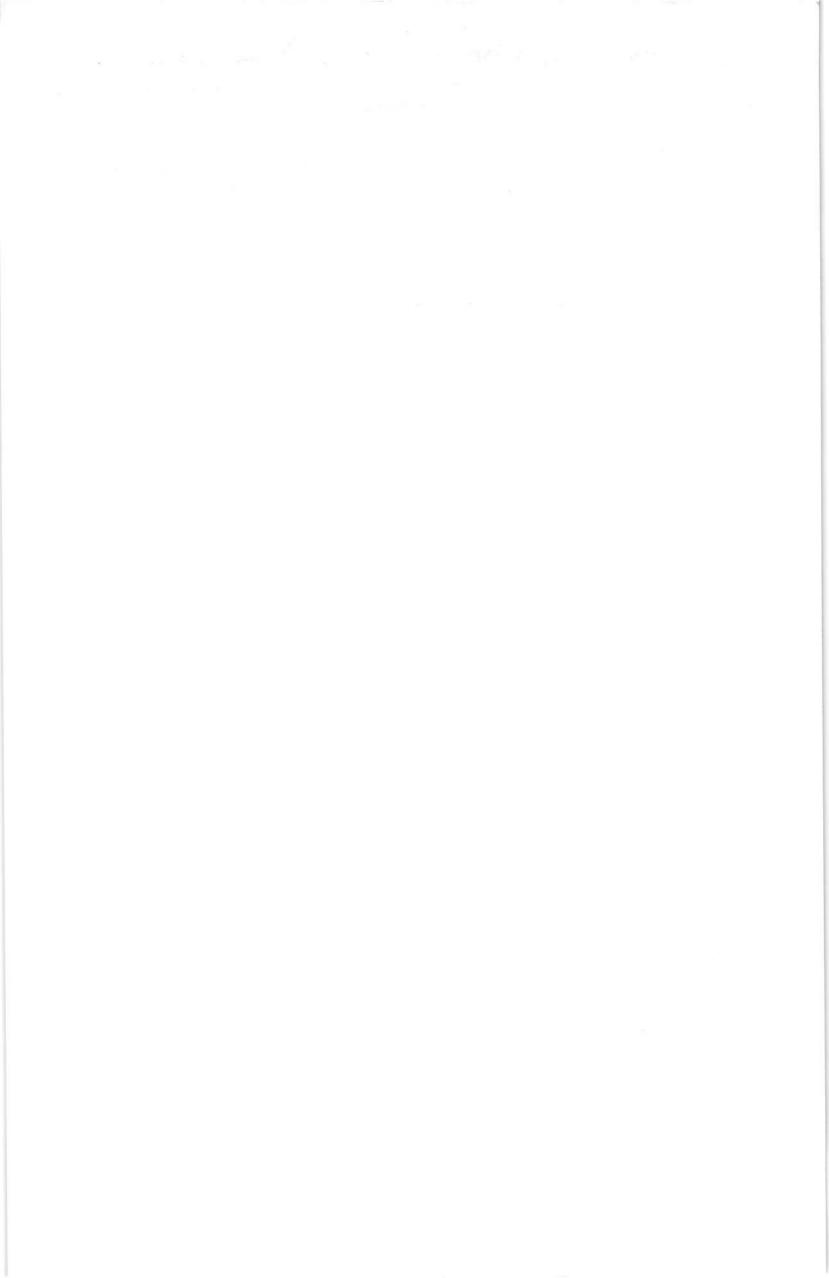
Q. No. 5: Discuss Excretion in Plants (5)

Q. No. 6: Describe in Detail Mendel's Law of Segregation and Law of Independent Assortment with the help of different crosses. (10)

Q. No. 7: Give a comparison of mitosis and meiosis. Also describe their importance. (5)



Third Semester – 201 Examination: B.S. 4 Years 1	KOILINO, III WOLUS,
ER: Biology-II rse Code: BIO-211/21116 Part–I (Compulso	ry) MAX. TIME: 15 Min. Signature of Su
<u>Attempt this Paper on this Operation Attempt this Paper on this Operation of m</u> <u>Please encircle the correct option. Division of m</u> <u>This Paper will be collected back after exp</u>	arks is given in front of each question.
1. Encircle the right answer, cutting and o	verwriting is not allowed. (1x10=10)
I. Beta pleated sheets are present in which structure of	f proteins?
A) Tertiary	B) Primary
C) Secondary	D) Quaternary
2. The combination of a pentose sugar with a base for	ms a compound known as
A) Nucleotide	B) Nucleoside
C) Phosphoric Acid	D) Nucleic Acid
3. Which type of evolution refers to change within pop	
A) Macroevolution	B) Organic Evolution
C) Microevolution	D) None of these
4. Darwin's theory, as presented in "The Origin of Sp	
A) How adaptations evolve	B) The origin of life
C) How new species arise	D) The genetics of evolution
	D) The generics of evolution
5. Selection acts directly on	
A) The entire gene pool	B) Phenotype
C) The entire genome	D) Genotype
6. Mannose and Galactose are the examples of?	
· A) Trioses	B) Tetroses
C) Hexoses	D) Pentoses
7. The metabolic wastes that are ingested into the bod	y and must be removed are
A) Pesticides	B) Drugs
C) Food Additives	D) All of these
8. Brain is protected by	
A) Skull	B) Orbits
C) Cranium	D) All of these
9 are three main parts of t	and a second
A) Filament, stigma, ovaryC) Anther, connective, filament	B) Stigma, style, ovary D) None of these
10. Separation of homologous chromosomes occurs d	
A) Prophase	B) Metaphase
C) Anaphase	D) Telophase



	× AD	U		SIIY Third Ser nation: B.	nester	- 2019				-	ds
		-	III (Cell Bio)T-201/213				N/ A W	TIME: MARK	15 Min. S: 10	```Sign	ature of Supdt
Ple			e the corre	et option. l	Divisio	n of ma	uestion Shee rks is given i y of time lim	n front (
Q.1.	Enc	circle	the right a	nswer, cu	atting a	and ov	erwriting is	not allo	wed.	(1x1	0=10)
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	b.	The	main functi	on of Golg	i compl	ex is					
		i.	Transloca	C	1	ii.	Fermentatio	n			
		iii.	Glycosyla			iv.	Phosphoryl	ation			
	c.		in essential		tin forn						
		i.	Actin			ii.	Tubulin				
		iii.	Histone			iv.	Myosin				-
	d. 7	The fu	nctions of p	eroxisomes	are:						
	iv.	Synth Protect All of	esis of glyc esis of serin ction from to the these organelle r	e oxic effects			eroxide ic inheritance	among e	eukaryot	es are:	
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		i.	Grana	ii. Stro	oma	iii	. Thylakoid	ls	iv.	Quantas	omes
200 A			helps in the			2 2			ŝ.		а 1 20
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		monor	neric units o	of DNA are	e:						
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			es and Pyrin								
i. 1	The to	erm he	eterosis repr	esents:							
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Third Semester – 2019

Examination: B.S. 4 Years Program

PAPER: Botany-III (Cell Biology, Genetics and Evolution) Course Code: BOT-201/21300 Part – II Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the short questions.

 $(10 \ge 2 = 20)$

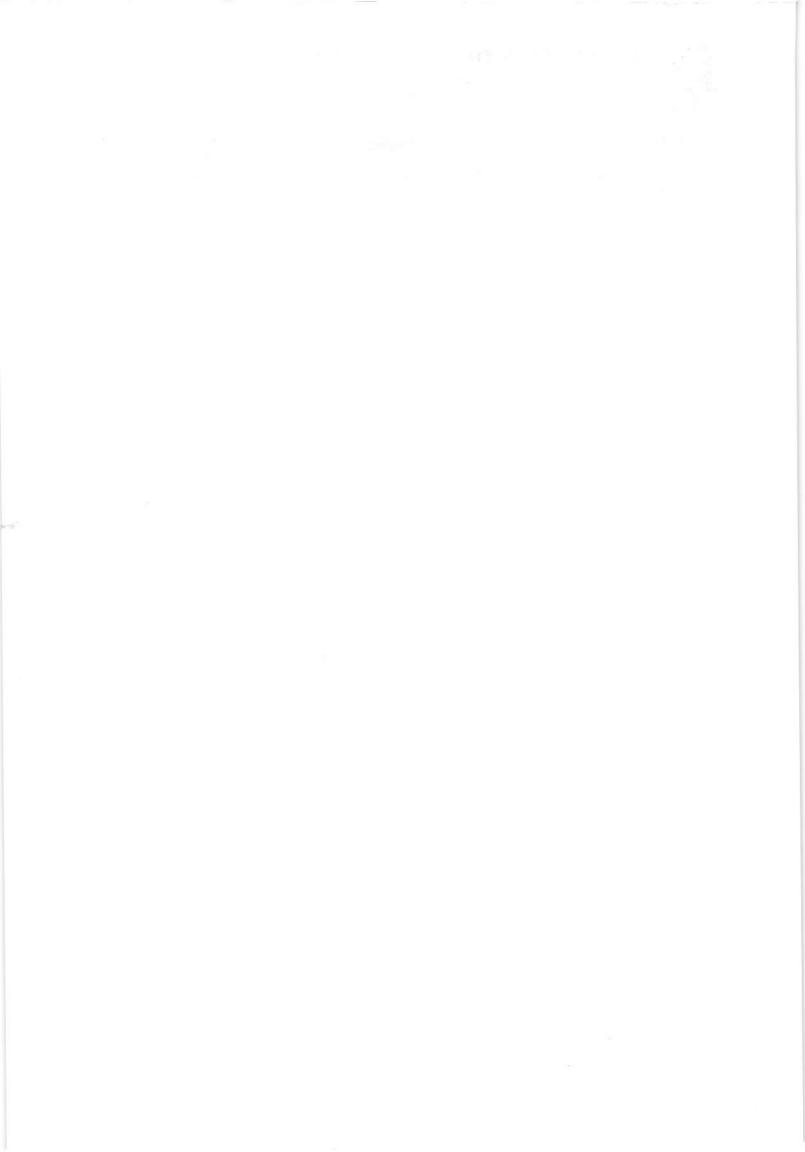
- i. Define Cell theory.
- ii. What is the difference between Simple and Facilitated diffusion?
- iii. What are Leucoplasts ? Mention their functions.
- iv. Differentiate between Prokaryotic and Eukaryotic ribosomes.
- v. What are Peroxisomes? What is their function?
- vi. What are the different types of RNA and their functions?
- vii. What is Transduction?
- viii. What are Cytoplasmic inclusions?
- ix. Differentiate between Population and Community.
- x. What is Synapsis?

Q.3. Answer the long questions.

 $(3 \times 10 = 30)$

1.	a. b.	What is the chemical composition of Cell membrane? Describe the ultrastructure and function of Chloroplast.		(7) (8)
2.	a.	Write a short note on Lac operon.		(6)
	b.	Explain the Transduction in bacteria in detail.		(9)
3.	a.	Differentiate between Test cross and Back Cross and their	importance.	(7)
	b. 1	Explain with examples Duplication and Deletion.		(8)





Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. in Fig.

Roll No. in Words.

PAPER: National and International Affairs Course Code: BSCS-201/MAS-21412 Part-I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Select the best answer from given option.

(1x10=10)

P.T.O.

1) Who was the author of "Emergence of Pakistan"?

- a) I.H Qureshi
- b) Waheed-ud-Zaman
 - c) Muhammad Ali Ch.
 - d) D) None of others

2. Which mountain range is located between China and Pakistan:

- a) Siwaliks
- b) Hindu Kush Range
- c) Great Himalayas
- d) None of these

3. Who was the first president of Constituent Assembly of Pakistan?

- a) Quaid-e-Azam
- b) Liaquat Ali Khan
- c) ·Sikandar Mirza
- d) None of these

4. When Indus Water Treaty was signed between India and Pakistan?

- a) 1960
- b) 1962
- c) 1969
- d) None of these

5. In which constitution the presidential and parliamentary system at centre and provinces were

adopted respectively?

- a) 1956
- 1) 1962
- c) 1972
- d) 1973

6. according to 1973 constitution who elects Prime Minister?

- (a) Senate
- (b) National Assembly
- (c) President
- (d) Provincial Assemblies

7. What is the other name of Mohammad Ali Bogra Formula?

- (a) New Law of Pakistan
- (b) Pakistan Report
- (c) Third Report
- (d) Constitutional Formula
- 8. ISAF stands for -----

9. Who was the Prime Minister of Pakistan during enforcement of first constitution?

- (a) Mohammad Ali Bogra
- (b) Khwaja Nazim Uddin
- (c) Choudhry Mohammad Ali
- (d) Ibrahim Ismail Chundrigar

10. What official name was given to Pakistan in 1956 constitution?

- (a) United States of Pakistan
- (b) Republic of Pakistan
- (c) Islamic Pakistan
- (d) Islamic Republic of Pakistan

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M	L	4	X	ζ.	ľ	M	I	1	R	ŀ	C	S		5	0								

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Part - II

- Give short answers. **O.2**.
- Social media usage and its consequences with references to Pakistan. i. پاکستان میں سوشل میڈیا کے استعال اور اثرات کے مارے میں کھیں۔

UNIVERSITY OF THE PUNJAB Third Semester - 2019 **Examination: B.S. 4 Years Program**

- ii. Write a note on CPEC.
- Write a note on national action program. iii.

PAPER: National and International Affairs

Course Code: BSCS-201/MAS-21412

- Describe Baluchistan issue with respect to recent development iv.
 - بلوچیتان میں موجو دہ پید اہونے دالی تیدیلیوں کے مارے میں ککھیں۔ .iv

Give answers of the following questions. Q.3.

How corruption can be managed in Pakistan? i.

> ياكستان مي كريش پركس طرح قابويا ياجاسكتاب؟ .i

س پیک پرایک نوٹ تحریر کریں۔

نیشنل ایکشن پلین پر نوٹ تحریر کریں۔

Evaluate the significance of water conflict between India and Pakistan in global ii. perspective of climate change.

Nawaz and Modi relationship with respects to China policy toward both countries. iii. نواز اور مودی کے تعلقات خاص طور پر چائنہ کی دونوں ممالک ہے دوستی اور پالیسی کے حوالے ہے تفصیل سے بحث کریں۔ .iii



$$(4x5=20)$$

.i

.ii

.iii

$$(3x10=30)$$

$$(3x10=30)$$

Third Semester – 2019 Examination: B.S. 4 Years Program

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Roll No	•
Roll No.	
MAX, TIME: 2 Hrs. 45 Min	
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MAX. MARKS: 50	

PAPER: Mass Communication Course Code: BSCS-211/MAS-21110 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers.

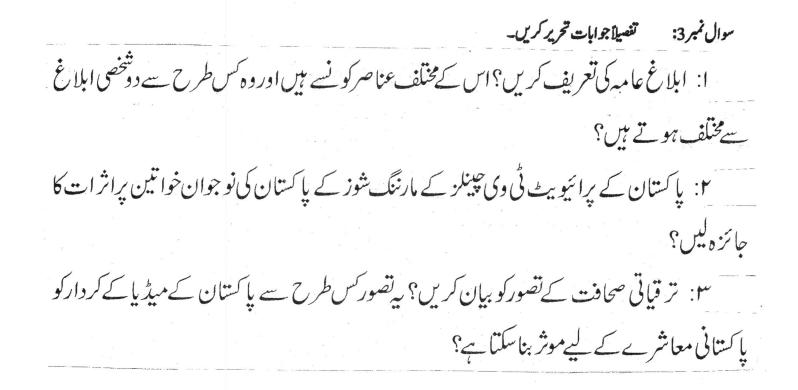
- i. Define citizen journalism? Please enlist its major types?
- ii. Describe concept of two steps flow of communication?
- iii. Describe inverted pyramid?
- iv. Briefly discuss the concept of band wagon?
- Q.3. Give answers of the following questions.

(3x10=30)

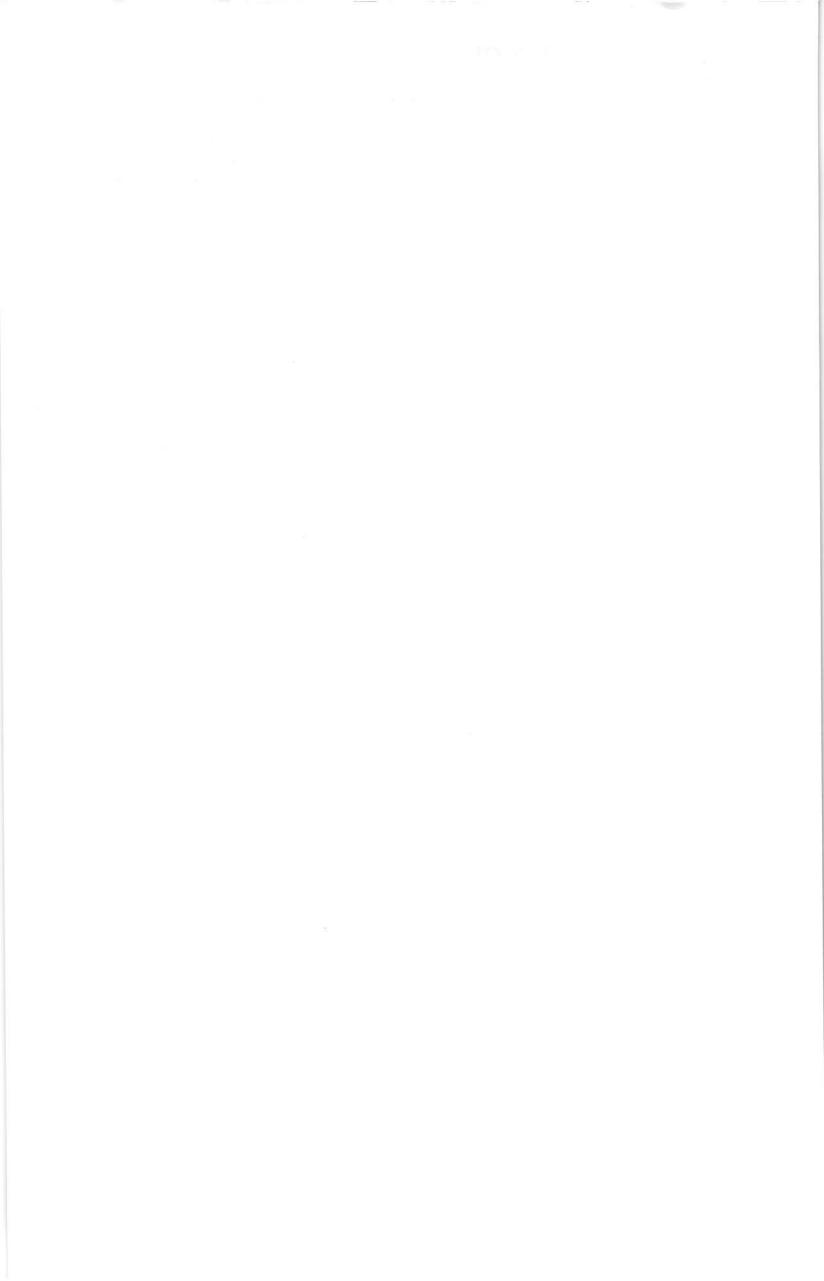
(4x5=20)

- i. Define mass communication. What are its different elements and how they differ from interpersonal communication?
- ii. Analyze the effects of private TV channels morning shows on Pakistani young women?
- iii. Define concept of development media theory? How can this concept make media role in Pakistan more beneficial for the society?

سوال نمبر2: مخضرجوابات تحرير كري-ا۔ شہری صحافت کی تعریف کریں ۔اس کی مختلف اقسام کی فہرست ترتیب دیں؟ ٢ ابلاغ کے دومراحل (ٹوسٹیپ) کے تصورکو بیان کریں؟ ٣- الثي تكون كوبيان كرس؟ ۳ بینڈویکن کانصور بیان کرس؟







and the second s	ERSITY OF THE PU Third Semester – 2019 xamination: B.S. 4 Years Prog	Roll No. in Words.	
PAPER: Mass Comm Course Code: BSCS-211		MAX. TIME: 15 Min.`\ MAX. MARKS: 10	updt.:
Please encircle the	ttempt this Paper on this Ques correct option. Division of marks I be collected back after expiry of	is given in front of each question.	
Q.1. Select the best	answer from given option.	(1x10=10)	
assembly	c mechanism regulatory action c media regulatory authority	B. Pakistan electronic machine regulatoryD. Pakistan election media regulatory	Ţ.
 2. Facebook was launch A. 2010 C. 2002 	hed in B. 2000 D. 2004		
 3. PTV was established A. 1964 C. 1965 	B. 1955 D. 1971		
 4. First movie was scre A. 1899 C. 1895 	ened in B. 1900 D. 1889		
5 manages iA. PIDC. DGPR	information and media relation of B. Rental media D. Syndicate	f Pakistani federal government.	
6. Noise produced becaB. soft noiseC. mechanical	ause of cultural differences is call B. enviror D. semant	nmental	
7. In Laswell's model 'A. feedbackC. message	what' stands for B. receive D. sender		
8. Bab-e-sahafat is the	title of		
A. Maulna MuhammadC. Maulana Zafar Ali KI			
9theory jA. Authoritarian pressC. Libertarian	ustifies government control over B. framing D. social respons		
10. Idea of global villagA. Bill gatesC. Steve jobs	e was coined by B. Murdo D. Marsh	ck all McLuhan	
		P.T.O. FOR URDU VERSION	

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Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. in Fig.

Roll No. in Words.

(Clash)

Exammation.

PAPER: Chemistry-III (Organic Chemistry) Course Code: CHEM-201/CHM-21304 Part-I (Compulsory) MAX. TIME: 15 Min MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

<u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

- Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)
 - 1. Which of the following statement is most suitable to an SN_1 reaction?

I) The rate limiting step of the reaction involves the alkyl halide and the nucleophile.

II) The order of reactivity is methyl > 1 > 2 > 3 (i.e., methyl is most reactive)

III) The rate limiting step of the reaction involves only the alkyl halide.

IV) Attack of nucleophile on substrate from rear would give product with inverted configuration.

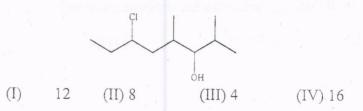
2. Conversion of an optically active compound into an equimolar mixture of enantiomers is known as:

(I) Tautomerization (II) Racemization

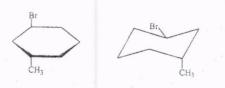
(III) Epimerization (IV

(IV) None of them

3. How many stereoisomers are possible for given compound?



4. What is the stereochemical relationship between the following two molecules?



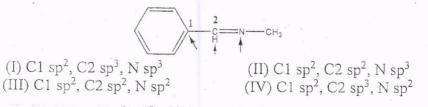
I) Geometrical isomers

II) Enantiomers

III) Diastereomers

IV) Identical

5. Which set of hybridization states of C1, C2, and N of the following molecule is correct?



6. Which of the following is not a meta director.

(I) CN (II) OH (III) COOH (IV) CHO

7. How many pi molecular orbital are present in molecular presentation of benzene.

(I) 8 (II) 2 (III) 4 (IV) 6 8. The reaction of benzene with an acid chloride in presence of lewis acid as catalyst is known as

(I) Perkin Raction(II) Friedel Craft acylation(III) Wurtz reaction(IV) Williamson's synthesis

9. The oxidation of isopropyl alcohol with Cr_3O in Glacial CH_3COOH would yield

(I) Propane (II) Propanol (III) Propanone (IV) Propanoic acid

10. Which one of the following molecules has a dipole moment?

 $(I) CS_2 \qquad (II) CHCl_3 \qquad (III) CCl_4 \qquad (IV) O_2$

Third Semester - 2019



Examination: B.S. 4 Years Program (Clash)

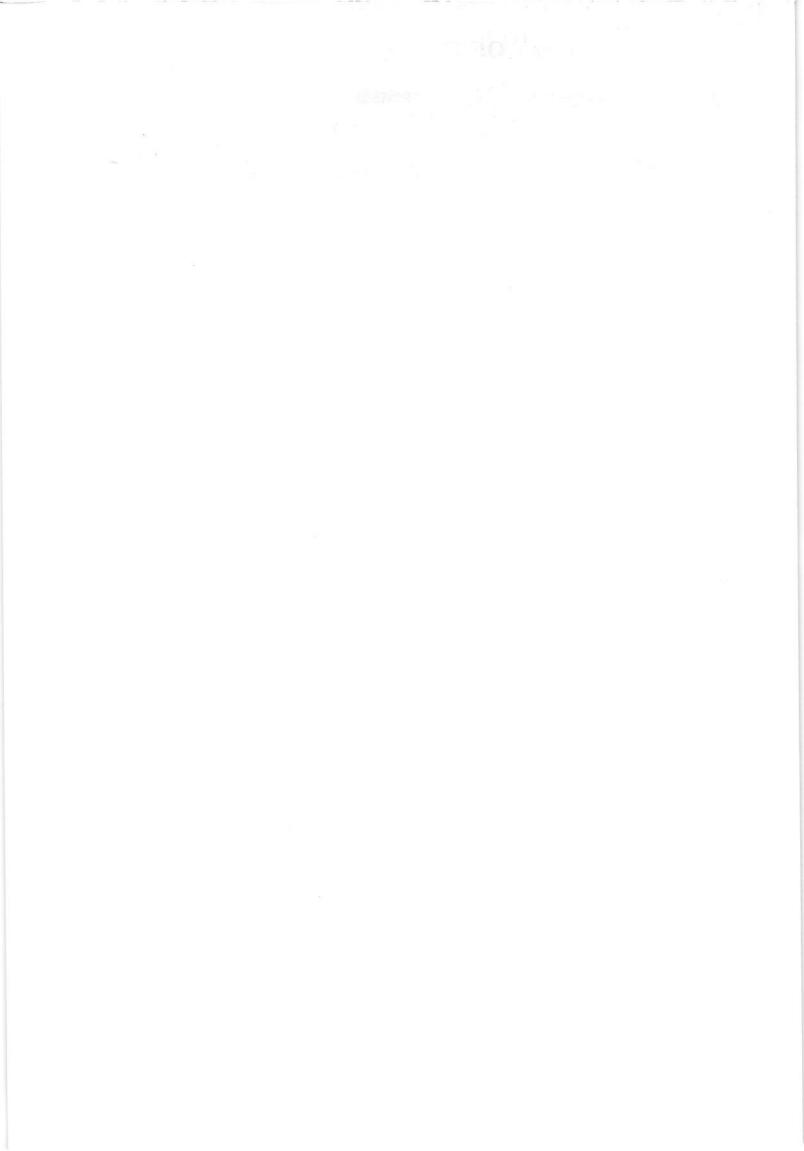
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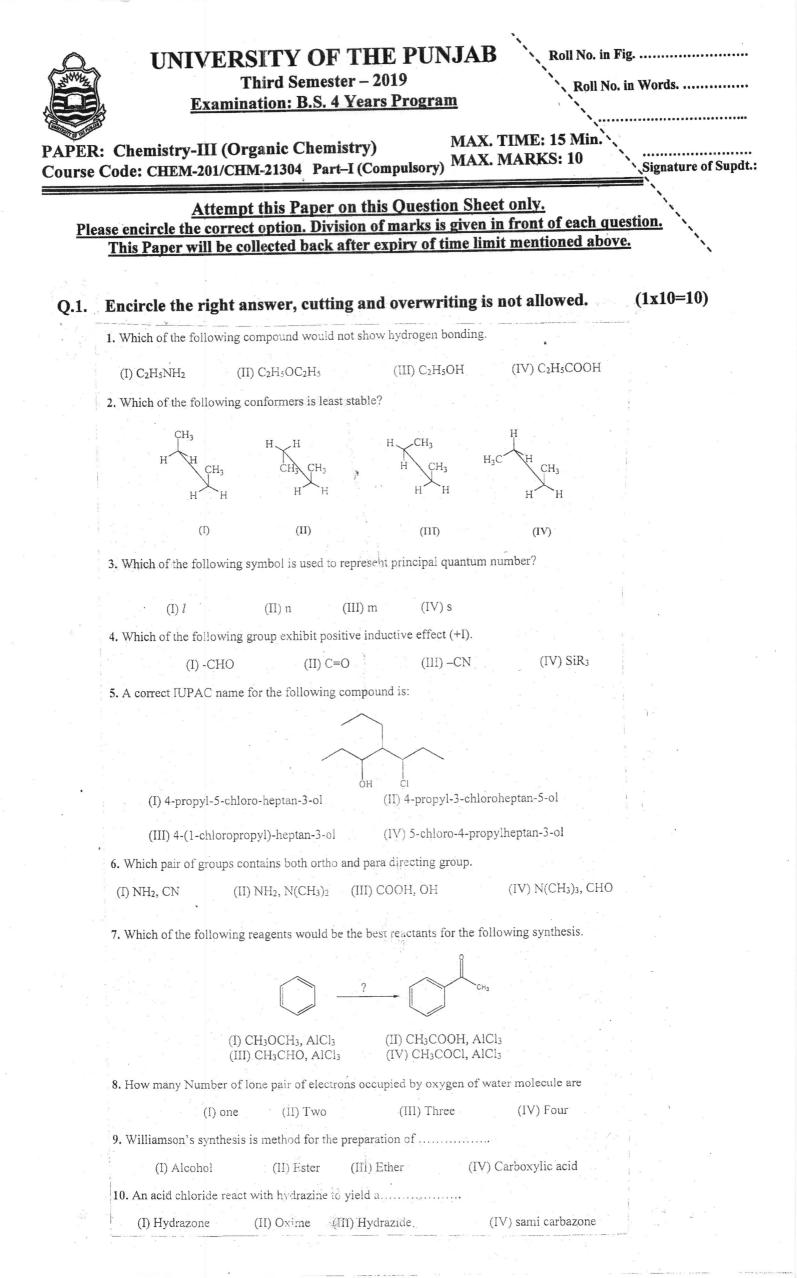
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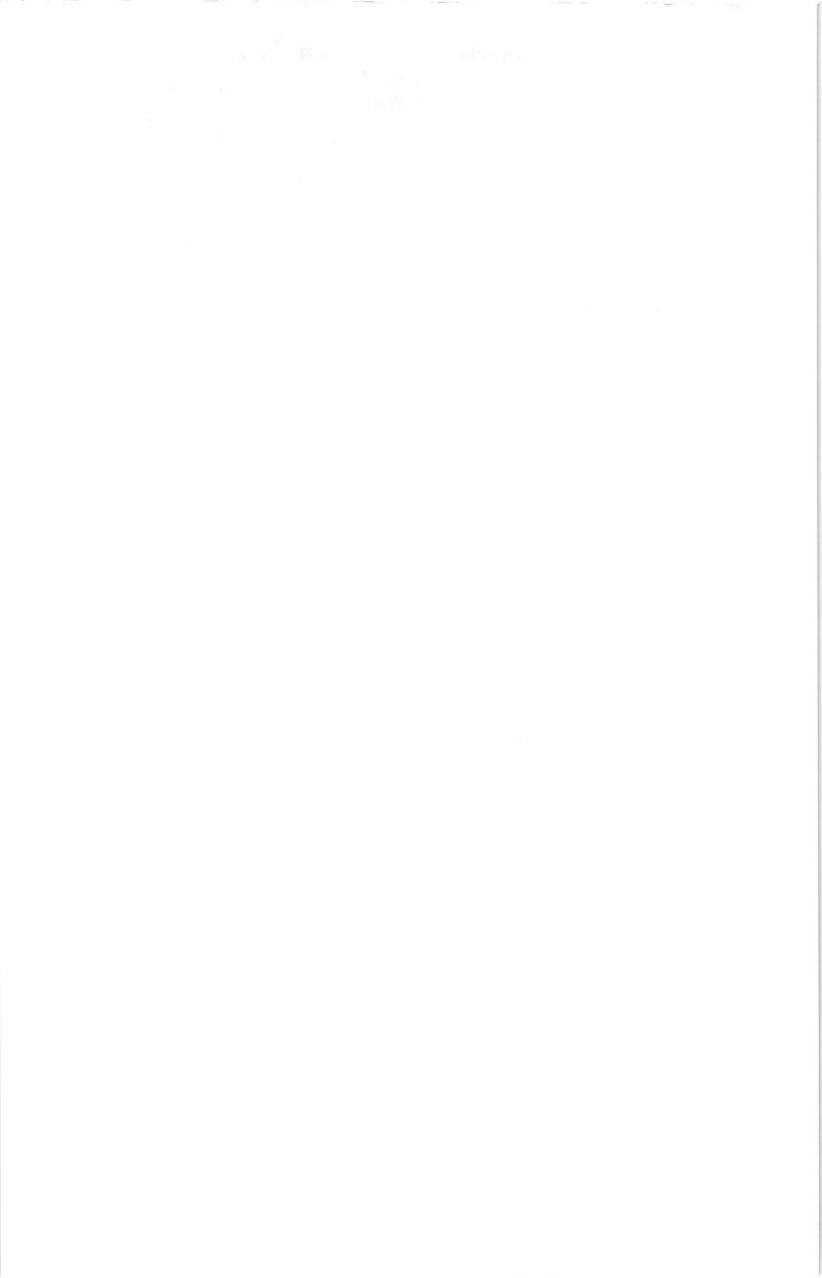
PAPER: Chemistry-III (Organic Chemistry) Course Code: CHEM-201/CHM-21304 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Give brief ans	swers to the following qu	lestions.	
	less basic than cyclohex		(2)
	nal strain with example.		(2)
(4) Why ethanol h	as higher boiling point th	an that of dimethyl ether.	(2)
		nethylcyclohexane and point out most stabl	(~) e
	d give reason.		(4)
(6) Why tertiary al	cohol reacts with HBr fa	ster than secondary alcohol.	(2)
(7) Why o-hydroxy	vbenzoic acid is more aci	dic than p-hydroxybenzoic acid.	(2)
(9) How will you c	onvert C ₂ H ₅ Br into prop	ane.	(2)
(10) How could yo	u differentiate between n	onaromatic and antiaromatic by huckel rule	(2) e. <u>(</u> 4)
	ou convert followings.		(6)
(i) vic-dihalide into		(ii) 2-butene into cis-butane-2,3-diol	
(iii) Prop-1-ene into		(vi) Prop-1-ene into 3-bromoprop-1-ene	
(v) Prop-1-ene into	1-bromopropane	(vi) Ethylene oxide into 1-propanol	
(b) Design suitable	syntheses of the followir	ng compounds starting from benzene. Show	all the
steps in each cas	se.		(6)
(i) Benzophenone	(ii) 4-bromo-3-nitrohe	enzoic acid (iii) Phthalic anhydride	
(c) Explain the diffe	rence between:		(0)
(i) Conjugation and			(8)
(ii) Resonance and ta			
(iii) Constitutional is	comerism and Stereoisom	nerism	
(iv) Center of symme	etry and axis of symmetr	У	
		• •	
(d) Explain SN1 mee	chanism with examples.		(5)
(e) Draw both the geo	ometrical isomers for the	following compounds and assign Z or E to	(5)
them.		to E to	
(i) 2-pentene	(ii) 3-methyl-2-pentene	(iii) 2-Iodo-2-butene	(5)
iv) 1-Bromo-1,2-dicl		(v) Maleic acid	









Third Semester - 2019

Examination: B.S. 4 Years Program

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Roll	No
	TIME: 2 Hrs. 45 Min.
MAX.	MARKS: 50

PAPER: Chemistry-III (Organic Chemistry) Course Code: CHEM-201/CHM-21304 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Give brief answers to the following questions.

1.	Explain and illustrate Sp, Sp2 and Sp3 hybridization with examples.	(6)
	How will you prepare 2-phenylpropan-2-ol from acetone.	(2)
	Why chloroacetic acid is more acidic than acetic acid.	(2)
	Why acetamide is a weaker base than methylamine.	(2)
	Why and how nitro group is deactivating and meta directing.	(2)
6.	Define hyperconjugation with examples.	(2)
7.	Explain why SO_2 is a polar molecule while CO_2 is a non polar molecule.	(2)
8	Why diethyl ether would not show hydrogen bonding.	(2)

Q3.(a) How would you distinguish between Primary, Secondary and tertiary alcohols by chemical tests and write chemical equations.	(6)
(b) Design suitable syntheses of the following compounds starting from benzene. Show a	all the
steps in each case.	(6)
(i) 2-chlorobenzoic acid (ii) 1-methyl-3-nitrobenzene (iv) Benzophenone	
(c) Draw the structures of the following compounds.	(4)
(i) spiro[4,5]decane (ii) 3-ethyl-4-isopropyl-1-heptene	
(iii)1,6-dimethyl cyclohexene (iv) p-methylanisole	
(d) Write different methods for preparation cycloalkane.	(4)
(e) Describe different methods for resolution of racemic mixtures.	(5)
(f) Give a comparison of SN_1 and SN_2 reaction.	(5)



Roll No. in Fig.

Roll No. in Words.

Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Advanced Financial Accounting-I MAX Course Code: COMM-201/COM-21356 Part-I (Compulsory) MAX

MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q 1. ENCIRCLE THE CORRECT ANSWER (1*10)

- 1. Bonds with the issuing corporation may pay off before the scheduled maturity date are called:
 - a) Callable bonds.
 - b) Serial bonds.
 - c) Convertible bonds.
 - d) Debenture bonds.
- 2. Which of the following is not a characteristic of corporate bonds?
 - a) A highly liquid, transferable investment.
- b) Has a specific maturity date.
- c) Represents ownership of the issuing corporation.
- d) Pays interest, usually semiannually.
- 3. When a corporation declares a cash dividend on common stock, which of the following should be excluded in determining the total amount of the dividend?
 - a) Shares issued in exchange for preferred stock.
 - b) Shares held by officers and directors.
 - c) Shares held by other corporations.
 - d) Shares acquired and held in treasury.
- 4. If sales increase by 10% from Year 1 to Year 2 and cost of goods sold increases only 6%, the gross profit on sales will increase by:
 - a) 4%.
 - b) 10%.
 - c) 6%.
- d) Some other percentage.
- 5. An acquisition is the same thing as:
 - a) An amalgamation.
- b) A takeover.
- c) A merger.
- d) A spin-off.
- 6. Mybank Ltd merged into Summit Bank, what kind of merger was this?
- a) Horizontal.
- b) Vertical.
- c) Joint venture.
- d) Conglomerate.
- 7. The first item in order of payment to be made by the liquidator is:
- a) Secured creditor.
- b) Preferential creditor.
- c) Liquidation expenses
- d) Debenture holders.
- 8. In liquidation process a contributory is:
- a) A creditor.
- b) A shareholder.
- c) A debenture holder.
- d) A liquidator.
- 9. If the total of the fair value of assets acquired is Rs 100,000 and the amount of purchase consideration paid is Rs 110,000, the difference should be treated as:
 - a) Loss on acquisition.
 - b) Goodwill.
 - c) Acquisition expense.
 - d) Negative goodwill.
- 10. Which of the following is the method of valuing of shares?
 - a) Super profit method.
 - b) Average profit method.
- c) Fair value method.
- d) Yield valuation method.

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Third Semester - 2019 **Examination: B.S. 4 Years Program**

Roll No.	
	•
MAX. TIME: 2 Hrs. 45 Mi	n.

PAPER: Advanced Financial Accounting-I Course Code: COMM-201/COM-21356 Part – II

MAX. MARKS: 50 ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED 20 Q2: Give short answers to the following questions: (2*10) 1. Define bonus shares. 2. Write down the formula of value of right. 3. Describe the usefulness of statement of cash flow. 4. What is the formula of calculating the gross profit percentage? 5. What are synergy benefits under amalgamation and absorption? 6. Define negative goodwill. 7. What are main items that appear on the debit side of profit & loss appropriation account? 8. What is the yield valuation method for the valuation of shares? 9. How treasury stock is reported in the stockholders' equity section of the balance sheet? 10. What are the modes of winding up of joint stock companies? Q 3: X Company performs adjusting entries every month, but closes its accounts only at year end. The Company's adjusted trial balance dated December 31, 2017, appears below. (Bear in mind, the balance shown for Retained Earnings was last updated on December 31, 2016.) (15)X Company Adjusted Trial Balance December 31, 2017 \$ Ś 171,100 Cash Account receivable 9,400 Prepaid Rent 3,000 Unexpired Insurance 7,200 Supplies 500 Equipment 18,000 Accumulated Depreciation: equipment 7,200 10,000 Notes Payable 3,200 Accounts payable Salaries Payable 4,000 6,000 Income tax payable 8,800 Unearned revenue 100,000 Capital Stock **Retained Earnings** 40,000 Dividends 6,000 **Revenue** Earned 165,000 Salary expense 85,000 Supply expense 3,900 Rent expense 12,000 Insurance expense 1,900 Advertising expense 500 Depreciation expense- equipment 1,800 900 Interest expense Income tax expense 23,000 344,200 344,200 P.T.O.

Required:

Prepare an Income statement and Balance sheet dated December 31, 2017.

Q 4: A joint stock company was registered with an authorized capital of Rs 5,000,000 divided into 500,000 shares of Rs 10 each. On 1st November 2017 the company issued 350,000 shares with following details: (15)

50,000 shares were issued to promoters towards preliminary expenses.

100,000 shares were issued to directors of the company for cash.

200,000 shares were issued to the general public.

On 20 November 2017, the company received applications for 300,000 shares. Shares were not allotted to applicants of 100,000 shares, therefore their application money was refunded.

Required: Record the above information in the books of the Company and show the figures in the Balance Sheet.

UNIVERSITY OF THE PUNJAE Third Semester - 2019

Roll No. in Fig.

Roll No. in Words.

Examination: B.S. 4 Years Program

MAX. TIME: 15 Min.

Course Code: COMM-202/COM-21357 Part–I (Compulsory) MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.

(1x10=10)Q.1. Encircle the right answer, cutting and overwriting is not allowed.

- 1. Exemplary damages are awarded to:
 - To compensate aggrieved party. a)
 - Not to compensate aggrieved party. b)
 - Burden of proof c)

PER: Business & Industrial Law

d) Non-profit organizations

2. An expressed contract is a contract when terms of contract are:

- Created with conduct of parties. a) b)
- c) Unenforceable

Not properly explained. Black & white.

d)

- 3. In an executory contract:
 - Terms of contract are clear. a)
 - b) Contract is written.
 - c) Some obligations remain to be fulfilled.
 - None of these d)

4. An agreement between two firms to avoid competition is void because it creates:

- a) Competition legal complication b)
- c)Uncertainty. Monopoly d)
- 5.
 - An agreement not enforceable by law is said to be:
 - a). None of these. b) Voidable contract
 - Void contract c) d) Void agreement

6. It is not necessary that the consideration must be equal to the value of promise. a) Agree disagree b)

Neither agree nor disagree. None of these c) d)

- 7. Ratification means.
 - a) Acceptance of offer b) Refusal of offer
 - /
 - c) Correction of agreement. d) None of these.

8. An agreement with a person of unsound mind is;

a) Doubt full agreement.

- b) Void agreement.
- c) Accepted by law.
- d) None of these.
- 9. Which of the following statement is true?
 - a) Sale of Goods Act applies to the whole of Punjab.
 - b) Sale of Goods Act applies to the whole of Sindh.
 - c) Sale of Goods Act applies to the whole of Baluchistan.
 - d) None of these.
- 10. Contingent goods are:
 - a) Available at the time of contract.
- b) Future goods.

c) None of these.

d) Existing goods.



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Business & Industrial Law Course Code: COMM-202/COM-21357 Part – II

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ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. ANSWER THE SHORT QUESTIONS:

 $(2 \times 10 = 20 \text{ MARKS})$

- i. Explain void agreement with an illustration.
- ii. Clarify the contingent contract with illustration.
- iii. Define performance of contract.
- iv. Explain adequacy of consideration.
- v. Elaborate undue influence with example.
- vi. Explain the position of acceptor if letter of acceptance is lost.
- vii. Explain coercion.
- viii. Explain counter offer with example.
- ix. Explain invitation to offer.
- x. Briefly explain implied contract.

Q3. <u>ANSWER THE FOLLOWING LONG QUESTIONS:</u> (3 X 10 = 30 MARKS)

- 1. Differentiate between contracts of indemnity and guarantee.
- 2. Describe the essentials of bailment with help of illustrations where necessary.
- 3. Explain the following essentials of contract with an example.
 - i. Possibility of performance.
 - ii. Not expressly declared void.
 - iii. Capacity of parties.

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Roll No. in Words.

Examination: B.S. 4 Years Program

PAPER: Income Tax Law

MAX. TIME: 15 Min.

Course Code: COMM-203/COM-21358 Part-I(Compulsory) MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

i. • •	On 14th August, Pakistan Government adopted the Income Tax Act	
	a) 1918	
	b) 1921	•
	c) - 1922	
	d) 1944	
ii.	Which one of the following includes Agricultural Income	
	a) Income from fisheries	
	b) Land revenue assigned to jagirdar	
	c) Income from flour mill	
	d) Income from markets	
iii.	Personal insurance premium expenses incurred by taxpayer are entitled for	
1114	a) Rebate at an average rate of tax	
	b) Deduction from tax	
	c) Deduction from total income	
э. ,	d) None of the above	
	Property income includes	
iv.	a) Profit on sale of property	
	d) None of the above Return of income u/s 114 shall be furnished by companies with tax year ending on or	between 1st day of
ν.	Return of income u/s 114 shall be furnished by companies with tax year ending on ea	
	January and 30 th day of June by	· · · · · · · · · · · · · · · · · · ·
	a) 30^{th} June	
2.45	b) 30^{th} September	
	c) 31 st August	
	d) 31 st December	
vi.	The following percentage of total income of individual is allowed as donations to a charitable institutions u/s 61. a. 20% b. 30%	approved
	c. 40%	
vii.	Personal legal expenses incurred by individual taxpayer, are entitled for:	
	a. Rebate at an average rate of tax	
	b. Deduction from tax	and the second
	c. None of the above	
viii.	Advance rent un-adjustable is included in Rental Value of Property upto:	e je soone B
	a. $1/4^{th}$	
	b. 1/5 th	
	c. $1/10^{th}$	
ر ــــــــــــــــــــــــــــــــــــ		
ix.	A person is known as salary person when his/her income	
14	a. Less than 50% from taxable income	
	b. Equal to 50% from taxable income	
	c. More than 50% from taxable income	
		,
Х.	Narrate the following abbreviations	
		*
	a. FBR	. (. j
	b. NTN	
	c. MTS	:
	V- 311.3 U	i i
	d. CNIC	
	d. CNIC	



Third Semester – 2019

Examination: B.S. 4 Years Program

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MAX. TIME: 2 Hrs. 45 Min	
MAX. MARKS: 50	
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PAPER: Income Tax Law Course Code: COMM-203/COM-21358 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

- $(5 \times 4 = 20)$
- a) Define the term "Taxpayer" with reference to Income Tax Ordinance 2001
- b) Explain the legal provisions regarding exemption of "Profit on Debt" under Income Tax Ordinance 2001.
- c) Briefly elaborate the feature of appeal to Appellate Tribunal
- d) Explain the conditions and rates regarding "initial depreciation"

Q.3. Questions with brief answers.

$(2 \times 15 = 30)$

Q. No. 03: From the following data, calculate the tax payable by Mr. Gulraiz for the year ended 30th June 2018

- a. Basic Salary Rs. 42,000 p.m.
 - b. Bonus for the year Rs. 5000.
 - c. Conveyance allowance Rs. 4,000.
 - d. Income from fish catching business Rs. 20,000
 - e. Special allowance Rs. 12,000.
 - f. Cost of motor vehicle Rs. 500,000. Vehicle provided by employer for both purposes.
 - g. Accommodation provided in big city by the employer. Rent entitlement Rs 220,000.
 - h. Contribution to recognized provident fund by employee Rs. 35,000
 - i. Contribution to recognized provident fund by employer Rs. 35,000
 - j. Interest received on accumulate balance @ 20% Rs. 20,000.
 - k. Zakat paid under Zakat Ordinance during the year Rs. 20,000.
 - I. Agricultural income Rs. 80,000
 - m. Qualification allowance Rs. 15,000
 - n. Tax deducted at source from salary Rs. 20,000.
 - o. Donation to University of Sahiwal amounted to Rs. 25,000.
 - p. Property income Rs. 320,000
 - q. Prize on prize bond Rs. 50,000

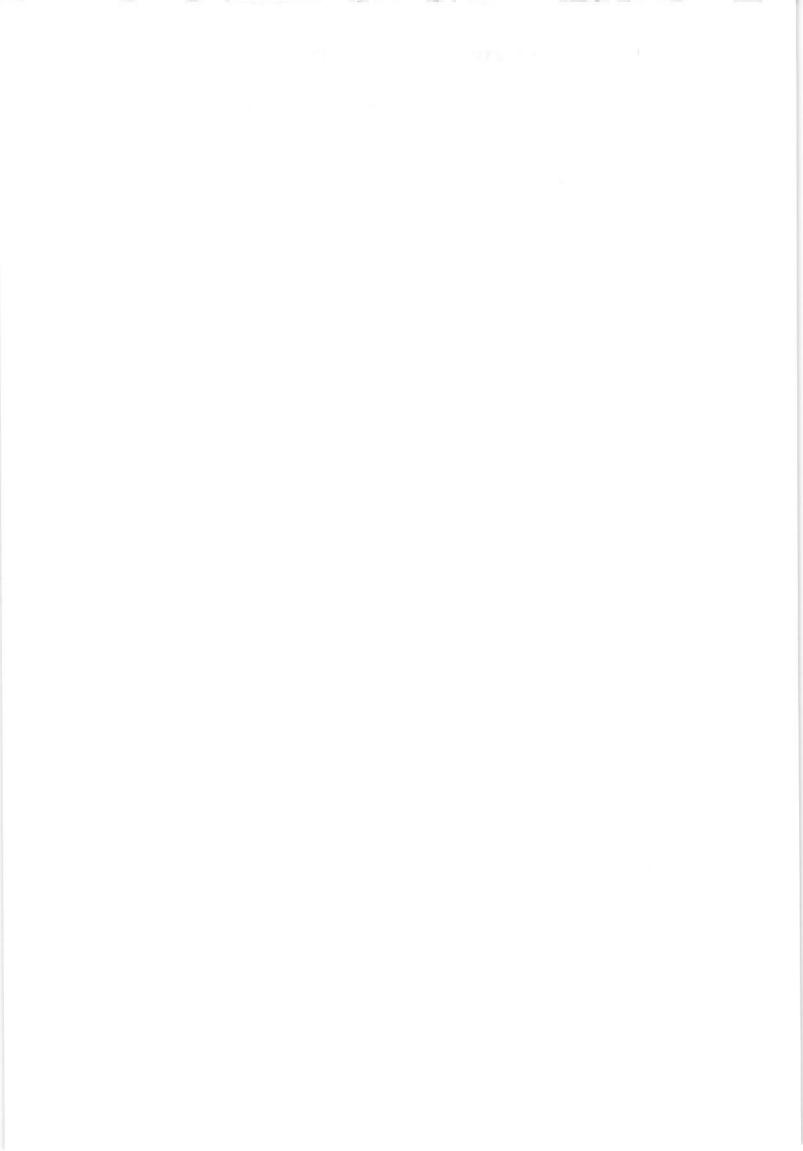
Extract of Rates of Tax for salaried persons for Tax Year 2018 1. Upto Rs. 400,000 Nil 2. Rs. 400,001 to Rs. 500,000 2% of the amount exceeding Rs. 400,000 3. Rs. 500,001 to 750,000 Rs. 2,000 + 5 % of the amount exceeding Rs. 500,000 4. Rs. 750,001 to 1400,000 Rs. 14,500 + 10 % of the amount exceeding Rs. 750,000

Extract of income tax rates for separate block of property income for tax year 2018

1.	Upto Rs. 200,000	Nil
2.	Rs. 200,001 to Rs. 600,000	5% of the amount exceeding Rs. 200,000

Q.No. 04: Why is the distinction between capital and revenue important from income tax viewpoint? Briefly explain six tests for differentiating capital and revenue receipts.





UNIVERSITY OF THE PUNJAB Third Semester - 2019 Examination: B S. 4 Vears Program

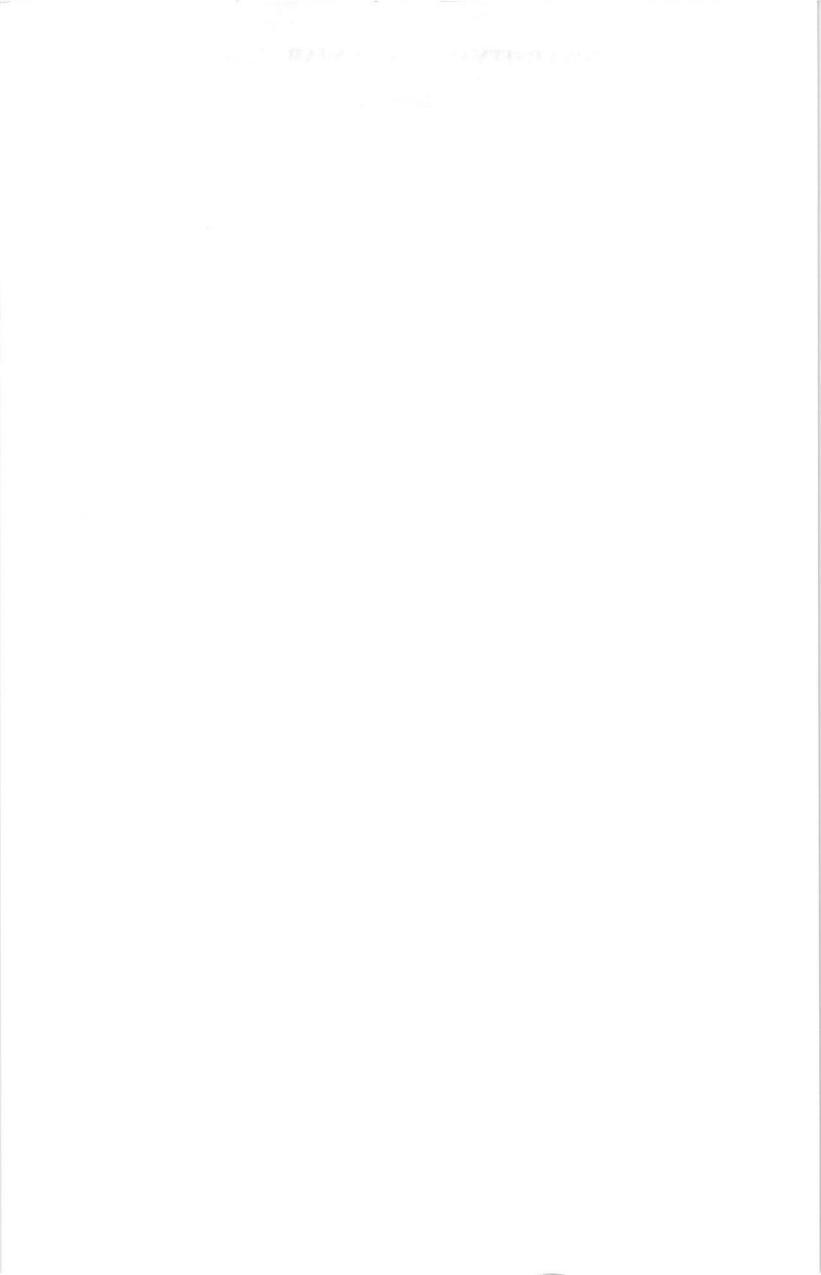
Examination: B.S. 4 Years Program

PAPER: Money Banking & Finance MAX. TIME: 15 Min. Course Code: COMM-204/COM-21359 Part-I (Compulsory) MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.

2.1.	Encircle the right answer, cutting and overwriting is not allowed.	(1x10=10)
i.	The primary functions of a commercial bank are	
	a. Receiving utility bills	
	b. Accepting deposits and advances loans	
	c. Issuance of ATM and Credit cards	
	d. Receiving Hajj applications	
ii.	Generally, the regulatory body for banking system in a country is	
	a. Central bank	
	b. Commercial bank	
	c. Investment bank	
	d. Agricultural bank	
111.	IMF stand for	
	a. International Monetary Finance	
	b. International Monetary Fund	
	c. International Material Fund	
	d. Immediate Monetary Feedback	
iv.	The money in document form with value stated on them but having no value in them	
	a. Metallic Money	
	b. Commodity Money	
	c. Paper Money	
	d. All of above	
N		11-14-14-14-14-14-14-14-14-14-14-14-14-1
V.	The method of not issue in which a fixed limit is not backed by any reserve and beyond that	limit notes issuance is
	backed by 100% gold/reserves	
	a. Fixed Fiduciary System	
	b. Proportional Reserve System	
-	c. Maximum Reserve System	
	d. None of these	
vi.	"Lender of last resort" in banking sector is referred to	
	a. Central Bank	
	b. Islamic Development Bank	
	c. Asian Development Bank	
	d. IMF	
vii.	Deposit which can be withdrawn by the depositor at any time by cheques	
	a. Current deposit	
	b. Fixed deposit	
	c. Term deposit	
	d. None of the above	
viii.	Fiat money is	
	a. Backed by gold	
	b. Includes currency and gold stored in bank	
	c. A type of money that has no intrinsic value	
	d. None of these	
ix.	Inflation is a situation is which	
	a. Decrease in purchasing power	
	b. Decrease in price level	
	c. A given quantity of money purchases a large quantity of goods	
	d. None of the above	
х.	Supply of country's products to the foreign countries	
	a. Exports	
	b. Imports	
	c. Retail trade	
	d. Home trade	and the second



Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Money Banking & Finance Course Code: COMM-204/COM-21359 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

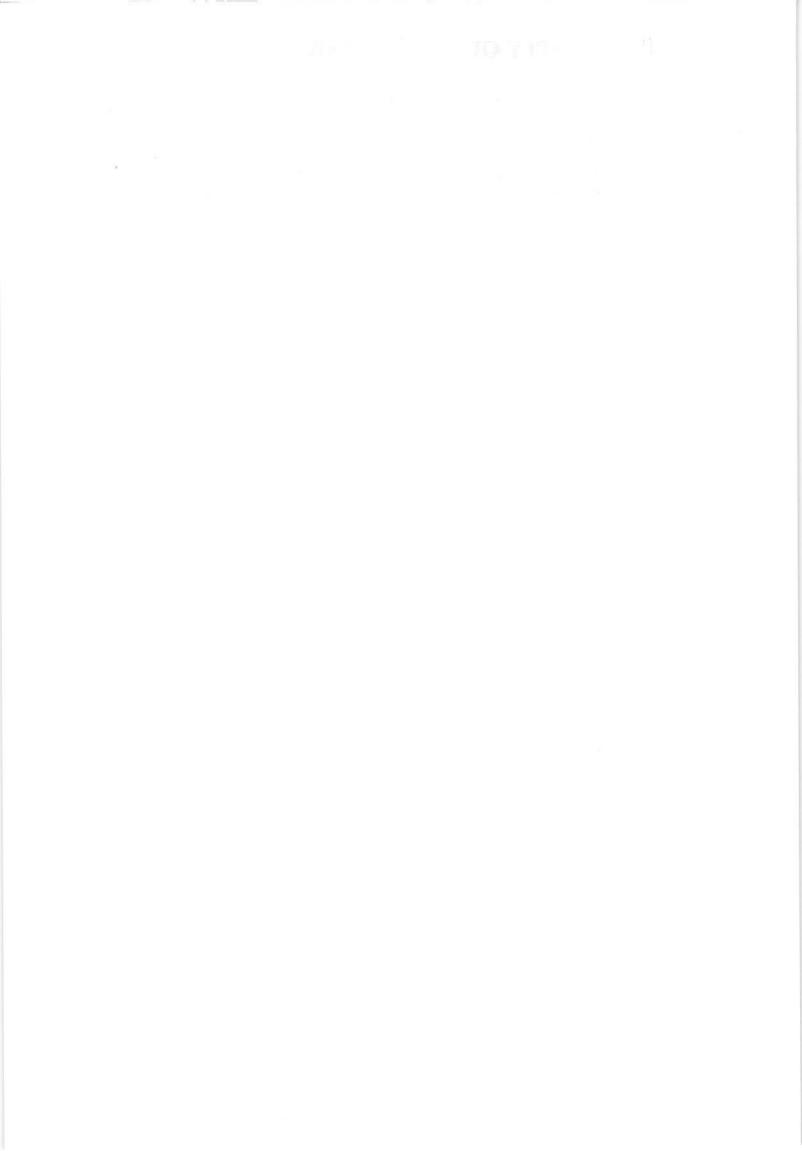
Q. 2. Provide short answers to the following questions. (10 × Q = 20)

- i. Briefly explain principles of note issue
- ii. What is intrinsic value
- iii. Differentiate three points between money and currency
- iv. List down the causes of inflation
- v. What is meant by index numbers
- vi. Elaborate recession
- vii. List down sources of debt financing
- viii. Differentiate between pledge and mortgage
- ix. Define commodity money
- x. List down quantitative tools of monetary policy by central bank

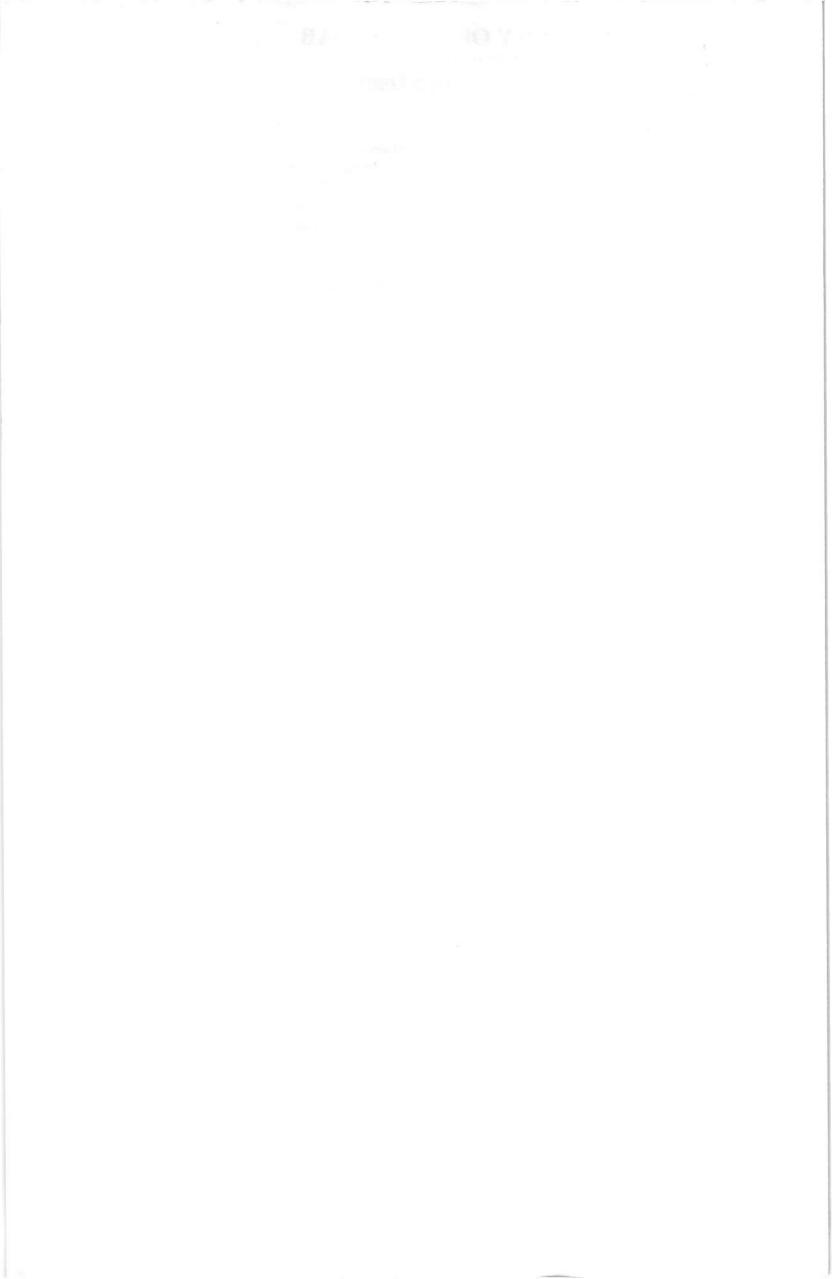
Questions with brief answers (3x10=30 marks)

Q. 3. Provide brief answers to the following questions.

- i. How the value of money is determined under demand and supply mechanism? Explain.
- ii. Differentiate between interest based and interest free banking systems
- iii. Briefly explain types of deposits being offered by commercial banks.



(ANNA	CRSITY OF THE PU Third Semester – 2019 mination: B.S. 4 Years Progra		``\	in Words
PAPER: Computer-III Course Code: COMP-201/	CMP-21316 Part–I (Compulsory)	MAX. TIMI MAX. MAR		Signature of Supd
Please encircle the cor	mpt this Paper on this Questi rect option. Division of marks i	s given in fror	nt of each que	
<u>This Paper will b</u>	e collected back after expiry of t	time limit mei	ntioned above	<u>e.</u>
Q.1. Encircle the righ	t answer, cutting and overwr	iting is not a	llowed.	(1x10=10)
	nt is responsible for converting byte	code into mach	ine specific cod	2?
a. a) JVM	b) JDK c) JIT	d) JRE		
				t i ser i te te
· a. a) Code (ow is not a memory leak solution? changes b) JVM parameter tu	-		
b. c) Proces	s restart d) GC parameter tun	ing		
	이 가는 상별 가는 와 사람이 있는 것이 별했다. 이 가는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 이 가는 것이 같이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다.			
 Which of these in a. a) Runna 	nterfaces is implemented by Thread ble b) Connections	class? c) Set	d) MapCon	nections
a second s	be used to pass information from J		SP?	
		sp:param> tag sp:useBean> tag		
5. What is it called y	where child object gets killed if pare	ot object is kille	45	
a. a) Aggreg	ation b) Composition	in object is kine		
b. c) Encaps	aScript function are enclosed in.			
			d) None of t	hasa
a) { & }	b) [&] c) (&	(X)	d) None of t	nese
		۰.		
7. Which of the follo	owing is server side programming	languages?		
a) VbScript	b) JavaScript	c) JSP	d) H	TML
8. What kind of prog	gramming language is Java?		г в •	
a) Object-orie	nted programming language	b) Relational	programming	language
c) Sixth-gener	ation programming language	d) Database m	anagement la	nguage
ζ				
9. The Extension wi	th which web documents are save	d is	a ¹ 1 a ² 1 ana	
a) .class	b).c c).ht		d).css	
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10. The tag is	used to add	e T	а 1917 г. – С	



Third Semester - 2019

Examination: B.S. 4 Years Program

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PAPER: Computer-III Course Code: COMP-201/CMP-21316 Part – II

	MAX.	TIME: 2	Hrs.	45	IVIII
	MAX.	MARKS	: 50		
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ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

(5x4=20)Q.2. Answer the following short questions. How do you create links to sections within the same web page? i. Write an HTML table tag sequence that outputs the following: ii. 150 pcs 1100 1500 110 pcs 15 150 iii. How do you create a link that will connect to another web page when clicked? iv. What are two types of Web Storage in HTML5? What is the difference between final, finalize and finally as per JAVA? v. (3x10=30)**Q.3.** Answer the following Long questions. i.

- i. An anagram is a word or a phrase made by transposing the letters of another word or phrase; for example, "parliament" is an anagram of "partial men," and "software" is an anagram of "swear oft." Write a JAVA program that figures out whether one string is an anagram of another string. The program should ignore white space and punctuation
- **ii.** For each of the following pairs of concepts that are used in Java explain similarities and differences and discuss when you would use one rather than the other. If there are important syntactic differences, method names, degrees of generalization possible or the like, then any code fragments you give in illustration should be as short as possible to make the desired point.
 - (a) JApplet and simple Java applications.
 - (b) Vector<String> and arrays of strings (String []).
 - (c) class, abstract class and interface.
- iii. What is JDBC Connection? Explain steps to get Database connection in a simple java program and also write the java code as example.



Roll No. in Fig.

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Computer Science-I

Course Code: COMP-211/IT-21335 Part-I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

i. Which one of the following is not used for sending an online message? (a) facebook (b) skype (c) gmail (d) google ii. Decimal number 74 has its equivalent binary that is equal to: (a) 111111 (b) 1010101 (c) 1000101 (d) none. iii. For $A = pi r^*r$; which of the following is true in C++: (a) Your variable: A (b) Your variables: A, r (c) Your variables: A, r, pi (d) your variables: true iv. Which of the following is true for a variable name to calculate sum of two numbers (a) sum (b) sum(a, b) (c) sum = a + b (d) both b and c v. If a = 4; and b = 5; then which of the following is true for a++; and ++b; (a) a is 4, b is 5 (b) a is 5, b is 5 (c) a is 4, b is 6 (d) a is 5, b is 6 vi. The file extension of a presentation program is: (a) .ppt (b) .txt (c) .pdf (d) .doc vii. In case of while loop, it is: (a) fixed iterations loop (b) condition control loop (c) easy loop (d) incremental Viii. if k=9, then k++ will give: a) 9 (b) 10 (c) 11 (d) 12 ix. you can run C++ in : (a) mobile (b) computer (c) laptop (d) both b and c x. for int a = 2.9; cout << a; will give you:

(a) 2 (b) 2.9 (c) 3.0 (d) All

Third Semester – 2019

Examination: B.S. 4 Years Program

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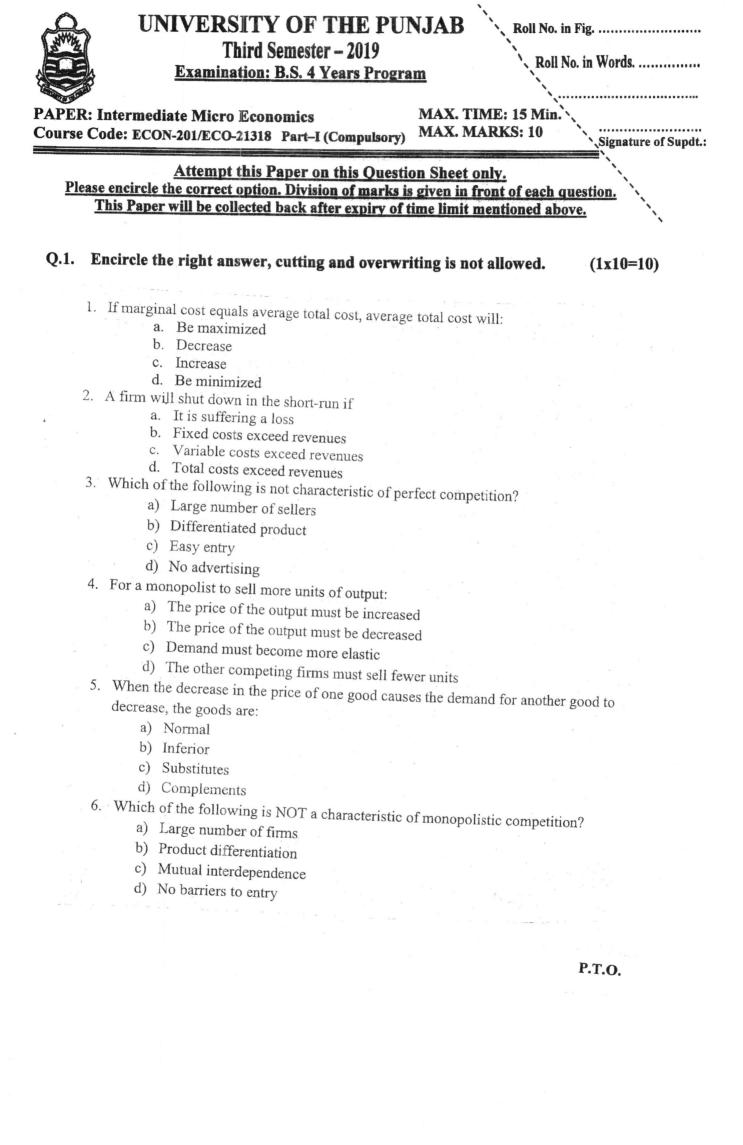
PAPER: Computer Science-I Course Code: COMP-211/IT-21335 Part – II

MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

0.			
Q.2.		Write short answers of the following Questions:	
	1	W/hat is it is 100	20 = 4x5
	1	What is the difference between input device and tactile input	
		devices? Write an algorithm to calculate y such that (e.g., $y = 4x^2$)	· · · ·
	2	Give decimal equivalent of binary number: 11000111.	
		factories of ornary number. 11000111.	
	3	Differentiete bet	
	5	Differentiate between int and float in C++computer and write	
		examples for each.	
	4		
		Write program to print out product of first five integers.	
		· · · · · · · · · · · · · · · · · · ·	
	5	Comment on the falls is in a	
		Comment on the following in C++: selection and repetition (loop).	÷
Q.3.		11	
2.3.		How the steps input, process and output are graphically shown in a flow chart? Differentiate between	10
		and a figure of the week an algorithm and a figure in	10
		Write an algorithm to calculate and print c such that $c = (a + b)(a-b)$.	
	İ	Write C^{++} program to print a number, its square and cube such that the numbers are from 1 to 500 μ .	
		the numbers are from 1 to 500 h	
		the numbers are from 1 to 500. How you can print only odd numbers in the above series?	
		in the above series?	
1			
2.4.		Write program to read from the user a value of t and prints out y1, y^2 and y^3 in C++ such that y^2 is the transformed of t and prints out y1,	10
		y2 and y3 in C++ such that:y1 = $sin(2t)$, y2= $cos(4t)$ and y3=y1+y2	10
		$y_{1} = y_{1} + y_{2}$	
		Write C^{++} program to print the table of number 5.	
		Frogram to print the table of number 5.	
.5.			
		W/rito program i o	10
		Write program to read from the user a value of a resistance R and	
		and prints our values of voltage V and many D	*
		V = IR and $P = VI$.	
- -	(Comment on the following: float, main() and pow().	
÷		and pow().	





	UNIVERSITY OF THE PUNJAB Roll No. in Fig. Third Semester - 2019 Roll No. in Words. Examination: B.S. 4 Years Program (Clash) R: Development Economics MAX. TIME: 15 Min. Code: ECON-202/ECO-21324 Part-I (Compulsory)
Ple	Attempt this Paper on this Question Sheet only. ease encircle the correct option. 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. (1x10=10)
I.	Pakistan started its 5^{th} five-year plan in:(a)1949(b) 1955(c) 1970(d)1978
II.	Agriculture accounts for:(a) 28% of GDP(b) 20% of GDP(c) 30% of GDP(d) 15% of GDP
III.	Contribution of services sector in the economy of Pakistan is: (a) 30% (b) 40% (c) 48% (d)58%
IV.	Percentage of employment of labor force in agriculture sector is : (a)50% (b) 55% (c) 43% (d)27%
V.	Pakistan is considered as : (a) Backward country (b) Developing (c) Developed (d) a and b
VI.	The latest population census in Pakistan was held in:(a)2013(b)2014(c) 2017(d)2018
VII.	Most of the exports of Pakistan consist of: (a)Industrial Products (b) Sports Goods (c) Cotton Products (d) a and b
VIII.	The largest item of our imports is:(a)Petroleum(b) Computers(c) Cotton Cloth(d) a and b
IX.	The cost of the China-Pakistan Economic Corridor in 2017 was \$:(a) 50 billion(b) 55 billion(c) 58 billion(d) 62 billion
Х.	The shortcomings which obstruct free system of prices are called:(a)Market imperfections(b) Market perfections(c) Business rivalries(d) a and c

		evelop	<u>Exar</u> ment	RSITY OF THE PUNJAB Third Semester – 2019 <u>mination: B.S. 4 Years Program</u> <u>(Clash)</u> Economics 02/ECO-21324 Part – II	Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50
	ATTE	MPT 1	THIS (SUBJECTIVE) ON THE SEPARATE A	NSWER SHEET PROVIDED
· (Q.#2:	Write	e a sho I. II. III. IV. V.	rt answer to the following. Poverty of Opportunity Index (POPI) Debt Overhang Theory Quality of Life Index Debt Buyback Externalities	(5x4=20)
	Q.#3:		How	Rostow explains various stages of Economic	Growth. (10)
	Q.#4:		How	trade is different from aid to boost the econo	
2.5	Q.#5:	6 ² ar	Accoi count	ding to balance growth theory how a country	y can become a developed (10)

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program A: Development Economics Code: ECON-202/ECO-21324 Part-I (Compulsory) MAX. MARKS: 10 Signature of Supd
Ple	Attempt this Paper on this Question Sheet only. ease encircle the correct option. 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. (1x10=10)
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Х.	The shortcomings which obstruct free system of prices are called: (a)Market imperfections (c) Business rivalries (d) a and c



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Development Economics Course Code: ECON-202/ECO-21324 Part – II Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.174. W	rite a short answer to the following.	(5x4=20)
a	1. Poverty of Opportunity Index (F		,
Y N	II. Debt Overhang Theory	and the second	
	III. Quality of Life Index		· · · ·
	IV. Debt Buyback		
	V. Externalities		
Q.#3:	How Rostow explains various stages of	Economic Growth.	
			(10)
0.114	How trade is different from aid to boost	the economic health of a cou	inter
Q.#4:			
Q.#4:	and is afferent from and to boost	the economic health of a col	· · · · ·
Q.#4:			(10)
Q.#4: Q.#5:	According to balance growth theory how		(10)

UNIVERSITY OF THE PUNJAB Roll No. in Fig. ...

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

MAX. TIME: 15 Min. PER: Basic Economics-III MAX. MARKS: 10 Course Code: ECON-221/ECO-21449 Part-I (Compulsory) Signature of Supdt.: Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above. 0.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)i. To determine the correct level of GNP, it is necessary to: Add up all savings a) To count all imports b) To add up the value of semi finished goods c) d) To add up the values of goods and services during one year ii. If government increases taxes, private savings. a) Decreases b) Do not change c) Increases A and C d) iii. The fiscal policy is concerned with: **Commercial Banks** a) b) Central Bank c) Government d) All of the above The theory of comparative cost was presented by: iv. Marsha 1 a) b) Ricardo Keynes c) d) Hicks Says law in money market is: v. Not applicable a) b) Applicable None of the both c) A and B d) vi. The consumption expenditures which are not influenced by income are: Autonomous consumption a) b) Induced consumption Durable consumption c) None of the above d) The steps taken by central bank to central money supply are: vii. Commercial policy a) Monetary policy b) Fiscal policy c) d) A and C viii. During deflation Central Bank will: a) Purchase securities Sell securities b) c) Waste securities d) None of the above If government wants to reduce the use of petrol, it will: ix. Tax on petrol be decreased a) Tax on petrol be increased b) c) Subsidies on petrol be given d) B and C If government wants to remove deficit on BOP, it should follow: X. Neutral Fiscal Policy a) Easy Fiscal Policy b) c) Strict Fiscal Policy **d**) None of the above

			X. TIME: 15 Min. X. MARKS: 10 Signature of Supd
Plea	Attempt this Paper on this Question ase encircle the correct option. Division of marks is g	giver	n in front of each question.
	This Paper will be collected back after expiry of tir	ne li	mit mentioned above.
).1.	Encircle the right answer, cutting and overwrit	ingi	is not allowed. (1x10=10)
i)	The two main entities in the circular flow of income mo	dela	are:
	a. People and foreigners	b.	Households and Businesses
	c. Businesses and foreigners	d.	Households and Government
ii)	Problems in measuring National Income may included	Ŀ	
	 a. measuring exports c. double counting 	b. d.	measuring imports Tax evasion
	e. double counting	u.	Tax evasion
iii)	IMF is		
. /	a. a local government organization	b.	an international organization
	c. organization of the USA	d.	organization of Switzerland
			organization of othereina
iv)	Rules of international trade may be negotiated in		
	a. the world bank	b.	WTO
	c. IMF	d.	UNO
V)	Fundamental Psychological Law of Keynes is related to		
	a. Consumption	b.	Investment
	c. Inflation	d.	Supply
n			
vi)	Deflation is		
	a. Increase in the overall level of economic activity.		An increase in the overall price level.
	c. Decrease in the overall level of economic activity.	d.	A decrease in the overall price level.
·::1	The dependence of the second sec		
vii)	Trade may not take place between countries A and B if a. country A has absolute advantage in both	b.	prices of products are the same in both
	products	υ.	countries
	c. taxes are imposed	d.	IMF does not provide loan
viii)	Production within the country is measure by		
	a. GNP	b.	GNI
	c. GDP	d.	All of the previous options
ix)	Pakistan borrows form		
	a. The World Bank		IMF
	c. both 'a' and 'b'	d.	none of 'a' and 'b'
X)	If tax rate increases with levels of income, this is called	h	Direct toy
	 a. Regressive tax c. Indirect taxes 	b.	Direct tax Progressive tax

UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program

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PAPER: Economics (Macro) for Commerce Course Code: ECON-231/ECO-21320 Part – II

MAX. TIME: 2 Hrs. 45 Min MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2.	Give short answers of following:	(10 x 2 = 20)
Ŀ	What is meant by Personal Income?	······································
ii.	What is value added with reference to National Income Accounting?	
III.	What is meant by Average Propensity to Consume?	•
iv.	How can the problem of a deflationary gap be solved?	2
٧.	According to Keynes, what are the determinants of investment?	
vi.	Which one of direct or indirect tax is better? Why?	
vii.	State the theory of comparative advantages of international trade.	
viii.	Can a country have Absolute advantage in both commodities under c	onsideration? Why c
	Why not?	
ix.	What is the main objective of WTO?	
Х.	What does the Keynesian Theory of Income and Employment teach u	s?
Q.3.	Give detailed answers:	$(3 \times 10 = 30)$
i)	Discuss the concept and measurement of National Income.	

- ii) Consumption is a direct function of income according to Keynes.Comment.
- iii) Explain the Heckscher-Ohlin theory of International Trade.



Roll No. in Fig.

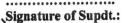
UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Education in Pakistan Course Code: ED-303 Part–I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10



Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.I. Select the best answer from given option.

(1x10=10)

1- The targets set in the five year plans differ to a great extent from the targets set in the:

- A) Development plans
- B) National policies
- C) Educational plans

D) Research plans

2-

In which year, six - year development program of Pakistan started?

- A) 1947 B) 1954
- C) 1950
- D) 1956
- 3- The first five year plan started in:
 - A) 1955
 - B) 1954
 - C) 1953
 - D) 1956

4- Educational conference 1951 was prepared by the ——— of the Central government in collaboration with provincial and state governments

A) Education Division

B) Planning board

C) Educational Council

D) Implementation Bureau

5-

6-

The second five-year (1960-65) plan was developed by that

A) Planning commission

B) Planning board

C) Planning Bureau

D) Planning Authority

Who will appointed in girls school if qualified female teachers are not available? in due course, all primary school will have only female teachers

A) Retired personnel

B) Subject specialist

C) Headmasters

D) senior most teachers

P.T.O.



Third Semester – 2019 Examination: B.S. 4 Years Program

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R	N	0.	 	•	•	•	 	 	•			•	•	
MAX MAX								4	13	5	N	1	iı	1.

PAPER: Education in Pakistan Course Code: ED-303 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. II Short Answer questions (Attempt All Questions) $(5 \times 4 = 20)$

- 1. Write down the Salient features of education policy 1978?
 - 1978 کی نغلیمی پالیسی کے اہم نکات کیا ہیں؟
- 2. What are the policy provisions for Secondary education of education policy 1998?

1998 کی تعلیمی پالیسی میں سکینڈر کی ایجو کیشن کے بارے میں کیا کیا گیاہے؟

3. What are the targets of second five year plan 1960-65?

دوسرے پانچ سالہ 1960-65 کے منصوبے کے اہداف کیا تھے؟

4. What are the major issues of education at primary level write only two issues?

پرائمری سطح پر تعلیم کے کما مسائل ہیں ؟ کوئی ہے دو پر نوٹ لکھیں۔

What are the issues of curriculum development write only two issues?
 نصاب سازی کے ۱۶۸ مسائل کیا ہیں؟ کوئی ہے دوپر نوٹ کھیں۔

Section III

Q. III Attempt All Questions

 $(10 \times 3 = 30)$

- Write down the main features of Aligrah movement?
 علی گڑھ تحریک کے اہم نکات لکھیں۔
- 2. Write down the Islamic concept of Education?

اسلامی نظریہ تعلیم کیاہے؟

3. What are the salient features of Hamood-ur-Rehman Commission 1964?

جو د الرحمن کمیشن 1964 کے اہم نکات کیاہیں؟

Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. in Fig.

Roll No. in Words.

PAPER: Psychology of Learning Course Code: ED-312 Part–I (Compulsory)

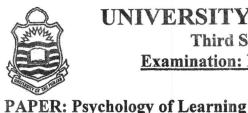
MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Select the best answer from given option.	(1x10=10)
 Cognitive development deals with a) Society b) Body 	
c) Mind d) Emotion	
2. The word Psychology is derived from:-	
a) Greek b) Latin	
c) English d) Italian	(, ^{**} *
3. Learning means:-	
a) Change in environment b) Change in culture	
c) Change in behavior d) Change in society	n an
4. Moral development involves.	
a) What is right and wrong b) Behaving of acc	ordanc
c) Feelings of guilt & pride d) Specialization	
5. Punishment is an example of which of the following:-	
a) Learning b) Motivation	
c) Intelligence d) Personality	
6-The learner & learning theories are studied in:-	
a) Philosophy b) Sociology	
c) Ontology d) Psychology	
7-Motivation associated with activated that are their own rew	vards is
a) Intrinsic motivation b) Extrinsic motivation	
c) Both a &b d) None of a & b	
8-Learning by insight theory in also called as:-	
a) Classical conditioning b) Operant conditioning	
c) Both a & b d) No of a & b	
9- Hierarchy of needs was presented by:-	
a) Gardener b) Maslow	
c) Piaget d) Skinner	
10- Growth is cellular whereas development is:-	
a) Institutional b) unicellular	
c) Organizational d) Psychological	





Course Code: ED-312

UNIVERSITY OF THE PUNJAB

Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Write short answers of the following. Each carries 4 marks. (4x5=20)

- 1) Write down 2 definitions of Educational psychology with reference.
- 2) Write down the 4 principles of Growth and development.
- 3) What is learning? Briefly explain.

Part – II

- 4) What is difference between intrinsic& extrinsic motivation?
- 5) Write down 4 classroom management techniques.

Q3. Write detailed answers of following questions. Each carries 15 marks. (15x2=30)

- 1) Discuss in detail the scope of Educational psychology in detail. Also give its educational implications.
- Explain different instructional strategies which may be used to enhance learning and teaching.

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: English Language-III Course Code: EDE-105 Part–I (Compulsory) MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

	i. "But big or	remember how you we nes every day for	nt eighty-seven days wi	thout fish and then we caught
	a) Two		c) Four	d) Five
	ii. Whos	e heart will beat for ho	urs after he has been cu	t up and butchered?
	a) Santiago	b) Marlin	c) Shark	d) Turtle
	a) "If the otl	hers heard me talking o	out loud they would think	k that I am
	a) Hungry	b) Thirsty		d) Troubled
	iii. "Fish,	" he said softly, aloud,	"I'll with	you until I am dead."
	a) Die		c) Swim	d) Stay
	iv. He cu	rsed his left hand becau	use it was	
	a) Injured	b) Cramped	c) Bleeding	d) Lazy
	v. "Bad	news for you, fish," he	said and shifted the line	over the sacks that covered
	his sh	oulders. What was the	bad news?	
	a) The fish h	ad exhausted.	b) The boy had cor	ne to help the old man.
	c) mis left na	nd was uncramped.	d) The sharks had a	come to attack.
	vi. Santia	go remembered the tim	ne in the tavern at Casab	lanca when he had played the
		game with the great neg on the Marlin		confidence
	c) To flatter l		d) To kill time.	connuence
	-)	`		
1				
-	vii. In the	return match Santiago	won quite easily since h	e had broken the
-	vii. In the	return match Santiago negro from Cienfuegos b) Heart	won quite easily since h s in the first match. c) Leg	
	vii. In the of the a) Hand viii. Hemir	negro from Cienfuegos b) Heart ngway says everything	s in the first match. c) Leg about Santiago is old ex	d) Confidence
	vii. In the of the a) Hand	negro from Cienfuegos b) Heart ngway says everything	s in the first match. c) Leg about Santiago is old ex	d) Confidence cept what?
	vii. In the of the a) Hand viii. Hemir a) His hands	negro from Cienfuegos b) Heart ngway says everything	s in the first match. c) Leg about Santiago is old ex c) His neck	d) Confidence cept what?
	vii. In the of the a) Hand viii. Hemir a) His hands	negro from Cienfuegos b) Heart ngway says everything b) His face	s in the first match. c) Leg about Santiago is old ex c) His neck	d) Confidence cept what?
	 vii. In the of the a) Hand viii. Hemir a) His hands ix. Where a) Cuba 	negro from Cienfuegos b) Heart ngway says everything b) His face e does the story take pla b) Puerto Rico	s in the first match. c) Leg about Santiago is old ex c) His neck ace?	d) Confidence cept what? d) His eyes d) Marshall Islands





Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: English Language-III Course Code: EDE-105 Part -- II

i.

Roll No. MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer FIVE of the following short questions: (5x4=20 Marks)

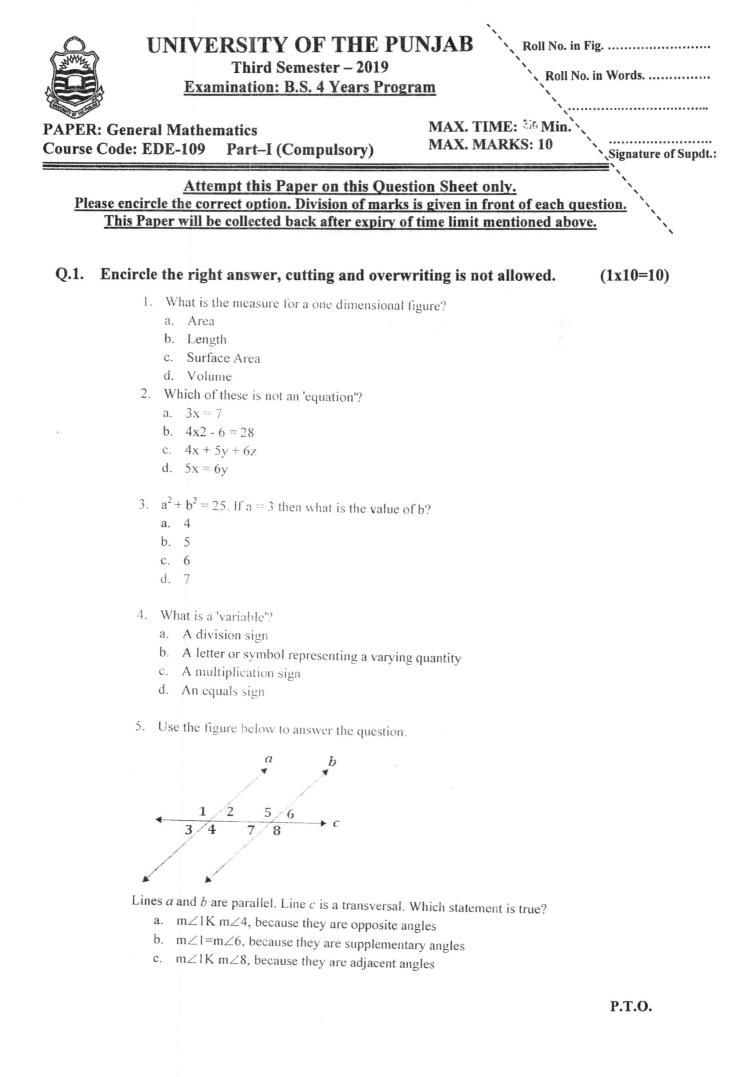
What is the logic of the old man going so far out in the sea?

- ii. How does Santiago succeed in killing the marlin?
- iii. Is Santiago a loser or winner in your opinion?
- iv. Describe the depth of the relationship of Santiago and Manolin.
- v. Discuss sea as a character in the novel 'The Old Man and The Sea.'

يند موالي المراجع

Q.3. Write a letter to the editor of newspaper about the sale of sub-standard helmets in the market. OR
 Write a letter to the editor of newspaper about the undue increase in the tuition-fee and other funds in private schools. (15 Marks)

Q.4. Write an application with resume to the District Education Officer for the post of Elementary Teacher. OR
 Write an application with resume to the Deputy Commissioner for the post of Data Entry Operator. (15 Marks)



UNIVERSITY OF THE PUNJAB	
Third Semester – 2019	• • • • • • • • • • • • • • • • • • •
Examination: B.S. 4 Years Program	Roll No.
eral Mathematics	MAX. TIME: 2 Hrs. 30 Min.
FDF 100 Port II	MAX. MARKS: 50

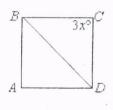
PAPER: General Mathematics Course Code: EDE-109 Part – II

Q.2. Short answers questions.

1. Jamal started a business in which he earned Re 1 on the first day Rs 4 on the second day, Rs 7 on the third day, Rs 10 on the fourth day, and so on. What is his earning in day 1001?

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

- 2. A right triangle has a hypotenuse of length 2x, a leg of length x, and a leg of length y. Write an expression that shows the value of y in terms of x.
- 3. If ABCD is a square, find the value of x.



4. Expand and simplify the following

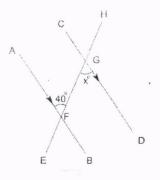
$$\frac{1}{2}(4x+4) + \frac{1}{3}(6x+12)$$

5. Find the unknown value in the proportion: 2: x = 3: 9.

Q.3. Brief answers questions.

(3x10=30)

- 1. Bilal works 8 hours per day, 5 days per week and his weekly pay is Rs. 1200. His employer increases his weekly wage by Rs. 400. Bilal does not need more money per week than his current weekly wage. He decides to decrease the number of hours he works every week. How many hours per week can he work now and keep the same income?
- 2. At stock exchange the share price a company is valued at Rs. 40 per share. The value increase by 25% and then decreases by 20%. What is the final value of share of that company?
- 3. In the following figure AB and CD are parallel lines and EH is a transversal. The size of angle AFG is 40° and the size of angle FGD is x° . What is the value of x?



(5x4=20)

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program A: Content Elective A-II (History) Code: EDE-160 Part–I (Compulsory) MAX. MARKS: 10 Signature of Suport	••
	Attempt this Paper on this Question Sheet only.	
Ple	ase encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.	
	اسس پر چے کے سوالات کوائی شیٹ پر حسل کریں۔	
Q.1.	Fill in the blanks, cutting and overwriting is not allowed. (1x10=10)	
	سوال نمبر 1: خالی جگه پر کیجتے کاٹ کر دوبارہ لکھا گیاغلط شار ہو گا۔	
i.	What is the new name of Jabul-ul-Tariq	
	i.	
ii.		
∙iii.	? Who stopped the "Tabirah" on Hazrat Ali (R.A)?	
iv.	III. المعرف في حرام اللدوجهة بر جرف في بلا في معران في معران في في المعران في في المعروبية الله وجهة بر جرف في بلا في معران في في المعران في المع	
v.	In which Hijri the event of Shob occurred?	
	v. واقعه شوب ^ک س سن ہجر ی میں پیش آیا۔۔۔۔؟	
vi.	What was the name of person from Umayyad who establish kingship in Undlas?	
	vi. بنوامیہ کادہ کون سانتخص تھاجس نے اندلس میں اُموی حکومت قائم کی۔۔۔۔۔؟	
vii.	Who was the writer of Muqadama-i-Abn-e-Khuldoon?	
viii.	vii. مقدمه ابن خلدون كامصنف لون تحا؟	
VIII.	vii. مقدمه ابن خلدون کامصنف کون تھا۔۔۔۔۔؟ ? What was the official language of Umayyad ? viii. بنوامیہ کی سرکاری دفتری زبان کون سی تھی؟	
ix.	And the second of the second sec	
	Who killed the Shemer? ix	
x.		
	The Abbasid movement started in Hijri بحری میں شروع ہوگئی تھی۔	

Contraction of the second	UNIVERSITY OF THE PUNJAB Third Semester - 2019		
	Examination: B.S. 4 Years Program	Roll No.	
	R: Content Elective A-II (History) Code: EDE-160 Part – II	MAX. TIME: 2 Hrs. 45 MAX. MARKS: 50	Min.
A	ITEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANS	SWER SHEET PROVIDE	<u>D</u>
	سسل سوالات کے جوابات اپنی امتحسانی کاپی مسیس درج کریں۔	المس پ پے مسیں شا	
	Write short answers, not more than four or five lines.	(10x2=20)	21
	جوابات چارياپانچ سطر وں سے زيادہ نہ ہوں۔ (10=20)	ر2: محتفر جوابات تحرير فيجئ	سوال ثمب
i.	What are the special features of the Umayyad Period?	اُموی دور حکومت کی نماماں خصوصات ک	.i
ii.	Hazrat Muawiya (R.A.) as a best king of Arab.		.1
		حضرت معاویہ دلاکھ عرب کے بہترین حکمہ	.ii
iii.	Character of Hajjaj bin Yousaf.	حجاج بن یوسف کا کر دار	.iii
iv.	Walid I	فبنبن فيوسف كالتردار	.111
		وليداول	.iv
v.	Musa bin Nasir	a la	
vi.	Marwan II : He was responsible for the fall of Umayyada's Dy	مو تی بن نصیر masty	.v
		مروان دوم۔ بنوأمیہ کے زوال کاذمہ دار	.vi
vii.	Revenue system of Umayyad Dynasty.		
viii.	Suliman's Character	بنوأمیہ کے ذرائع آمدنی۔	.vii
v 111.	Summan's Character	خلیفہ سلیمان کا کر دار۔	.viii
'x.	Event of Miraj-e-Rahit.		. • 111
		مرج رابط كاواقعه	
Х.	Central Asia's policy of umayyad.	بنوأمیہ کی وسط ایشیایالیسی	.x
		بحواميه فاوسط الينيايا للن	.X
Q.3.	Write brief answer the following:	(3x10=30)	
		برد: تفصيلي جوابات تحرير يجيئ	سوال تم
÷.	Give an account of the reforms of the Hazrat Ummer bin Abdu		
ii.	ت بیان یجئے۔ Account for the decline and downfall of the Umayyads.	حضرت عمر بن عبد العزيز دفان کی اصلاحار	.i
		بنو اُمیہ کے زوال ادر تنزلی کے اسباب او	.ii
iii.	Write in detail the administration of Umayyad.		8573257
	-2-	بنوامیہ کی اصلاحات و نظم ونسق تحریر سے	.iii

Roll No. in Fig.

Roll No. in Words.

Third Semester – 2019

Examination: B.S. 4 Years Program

MAX. TIME: 15 Min.

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Select the best answer from given option.

ER: Content Elective-A (Sociology-II)

Course Code: EDE-168 Part-I (Compulsory)

- 1. Example of Material culture
 - a. Pen
 - b. Building
 - c. Book
 - d. All of the above

is the smallest part of the culture

- 2. _____a. Ethos
 - b. Complexes
 - c. Trait
 - d. Patterns
- 3. ______ is the process of learning the culture of a society.

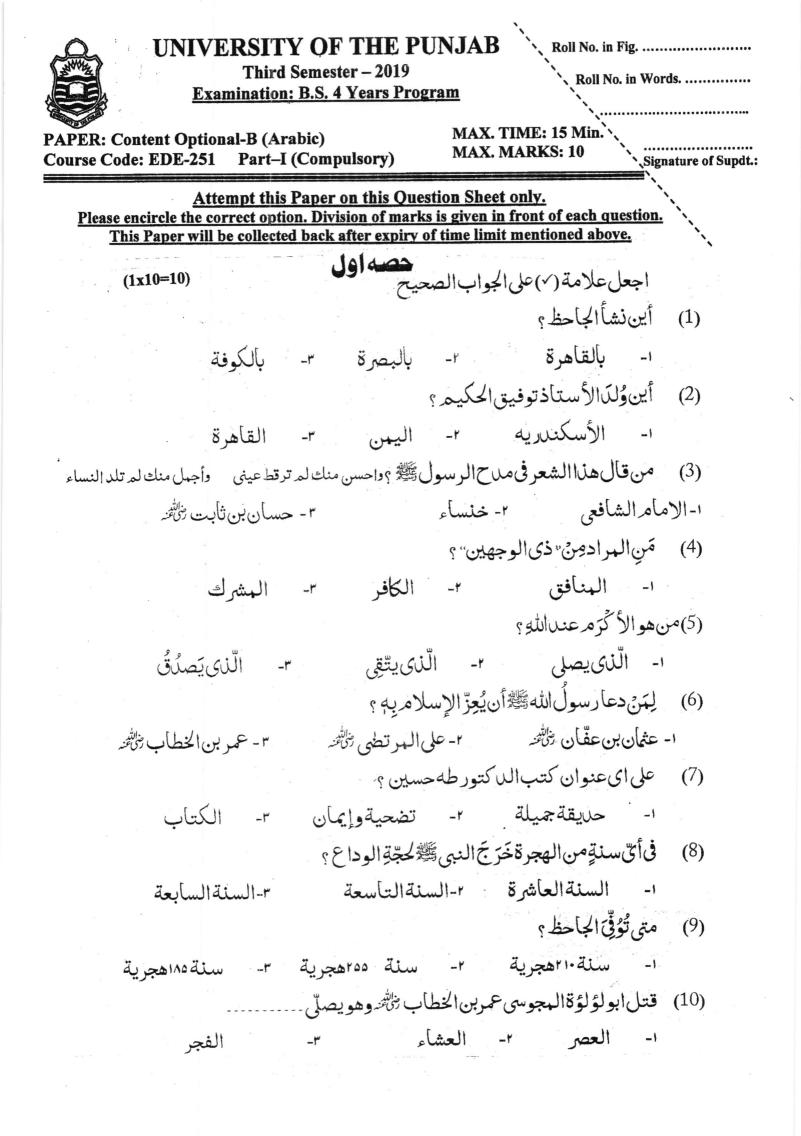
status

- a. Role
- b. Status
- c. Socialization
- d. Mobility
- 4. Caste is an _____
 - a. Achieved
 - b. Ascribed
 - c. High
 - d. Low
- 5. Culture is always
 - a. Permanent
 - b. Constant
 - c. Static
 - d. None of the above

P.T.O. For Urdu Version

(5x2=10)

AA. MARRS: 10



Third Semester – 2019 Examination: B.S. 4 Years Program

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•																		
I	Roll	N	0					•					•			•	•	•
MA	X.	Т	IN	A	E	:	2	ł	ł	r	s.	4	13	5	N	1	iı	1.
MA	X.	N	LA	I	ł	C	S	:	5	0								

PAPER: Content Optional-B (Arabic) Course Code: EDE-251 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

حصهدوم

السوال الاوّل: ترجم العبارة الآتية بالأردية أوالإنجليزية «قدقيل بان الكتابَ هو الجليس الّنِ ىلا يُنَافق ولا يملّ ولا يُعاتبك إذا جفوتَهُ ولا يُفَشى سرّكَ» السوال الشانى: ترجم الحديث بالأردية أوالإنجليزية -«اِتَّق الله حيثماً كنت واتبع السيَّنة الحسنة تمحها وخالِق الناسَ بِخُلُقٍ حَسَنٍ» السوال الشالث: أخبِرُ بالعربية من هو الجاحظ وما ذا تعرف عنه _ السوال الرابع: ترجم واشرح الحديث بالأردية أوالأنجليزية -

"خير الأمور أوسطها "

حصه سوم

السوال الاوّل: ترجم الآيات الأتية بالأردية أوالأنجليزية-

﴿ وَعِبَادُ الزَّحُلْنِ الَّذِينَ يَمُشُونَ عَلَى الْآدُض هَوُنًا فَإذَا خَاطَبَهُمُ الْجَهِلُوُنَ قَالُوا سَلَمًا ﴿ وَعِبَادُ الزَّحُلْنِ الَّذِينَ يَبِينُونَ لِرَبِّهِمُ سُجَّدًا وَقِيَامًا ﴾ وَالَّذِينَ يَعُنُونَ عَنَا عَذَابَ جَهَنَّمَ * إِنَّ عَذَابَهَا كَانَ غَرَامًا ﴾ إنَّهَا سَآءَتُ مُسْتَقَرًّا وَمُقَامًا ﴾ وَالَّذِينَ إذَا نَفَقُوا لَمْ يُسْرِفُوا وَلَمْ يَقْتُرُوا يَعُونُ وَرَبَعِنَ عَذَابَ جَهَنَّمَ * إِنَّ عَذَابَهُ مَا عَرَامًا ﴾ وَاللَّذِينَ وَاللَّهُ عَلَى الْأَدُينَ وَاللَّهُ فَعَامًا ﴾ وَاللَّذِينَ وَاللَّهُ عَنَا عَذَابَ جَهَنَمَ فَوُا وَلَمْ يَقْتُرُوا وَلَمُ يَقْتُرُوا وَلَمُ يَعْتَرُوا وَلَمُ يَعْتَرُوا وَلَمُ يَعْتَرُوا وَلَمُ يَعْتَرُوا وَلَمَ يَعْتَرُوا وَلَمُ يَعْتَرُوا وَمَا عَ

السوال الثاني: ترجم الأبيات التالية واشرحها بالأردية أوالإنجليزية

1_ وَمن هاب اسباب المنايا يَنَلنَهُ

2_ ومهما تكن عند امُرِيءٍ من خليقةٍ

3_ وكائن ترى من صامتٍ لَكَ مُعجبٍ

4_ لسان الفتى نصف ونصف فواده

السوال الثالث: ترجم الجمل الآتية بالعربية

1_ مجھے جامع کلمات عطاکیے گئے ہیں۔ 3_ راستوں میں بیٹھنے سے بچو۔

10

2 ظلم قیامت کے دن اندھیرے ہوں گے۔ 4 يے شک مؤمن بھائي بھائي ہيں۔

ولو دام إسباب السهاء بشلّم

وإنْ خَالَها تخفى على الناس تُعْلَمِهِ

زيادتهٔ او نقصه في التكلم

فلهريبق الإصورة اللحمر والدمر

5_ بے شک اللد نے ماؤں کی نافر مانی کو حرام کردیا ہے۔



5

5

5

5

10

10

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program MAX. TIME: 15 Min.
	e: ENG-201/21103 Part-I (Compulsory) MAX. MARKS: 10
	Attempt this Paper on this Question Sheet only. ncircle the correct option. Division of marks is given in front of each question. s Paper will be collected back after expiry of time limit mentioned above.
Q 1 (a) N	1ark the following statements as True or False. (5)
(i) (ii) (iii) (iv) (v)	The first impression of an interviewer is based on what the interviewee is wearing, so the interviewee should dress-up professionally even if the work environment is casual Present irrelevant and detailed information about yourself and your family in your CV It is important to do full rehearsal before finalizing your presentation Using too many gestures in a presentation can be distracting A formal letter is a letter to a friend asking about her well-being
Q 1 (b) (Define the following: (5)
. (i)	Resume
(ii)	Posture (with reference to presentation)
(iii)	Short Report
(iv)	Cover Letter
(v)	Speaking effectively

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

PAPER: English-III (Advance Communication Skills) Course Code: ENG-201/21103 Part – II

•••	• • •					• • •		•••
•	Rol	I No					•••	•
			ME:					
M	AX	M	ARK	S: 5	50			

(20)

(10)

(10)

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2 Write short answers to the following questions:

- (i) How will you engage your audience in an Oral Presentation?
- (ii) What should an interviewee avoid while appearing for an interview?
- (iii) What strategies one can use to make presentation more interesting?
- (iv) How will you justify that you deserve a scholarship to an interviewer?

Q 3 Write a short report on any one of the following topic :

- (i) Electricity crisis in Pakistan
- (ii) The consequences of rapid population growth in Pakistan.
- Q 4 Write a letter to the Editor of a Newspaper discussing the contemporary issues of Pakistan. (10)

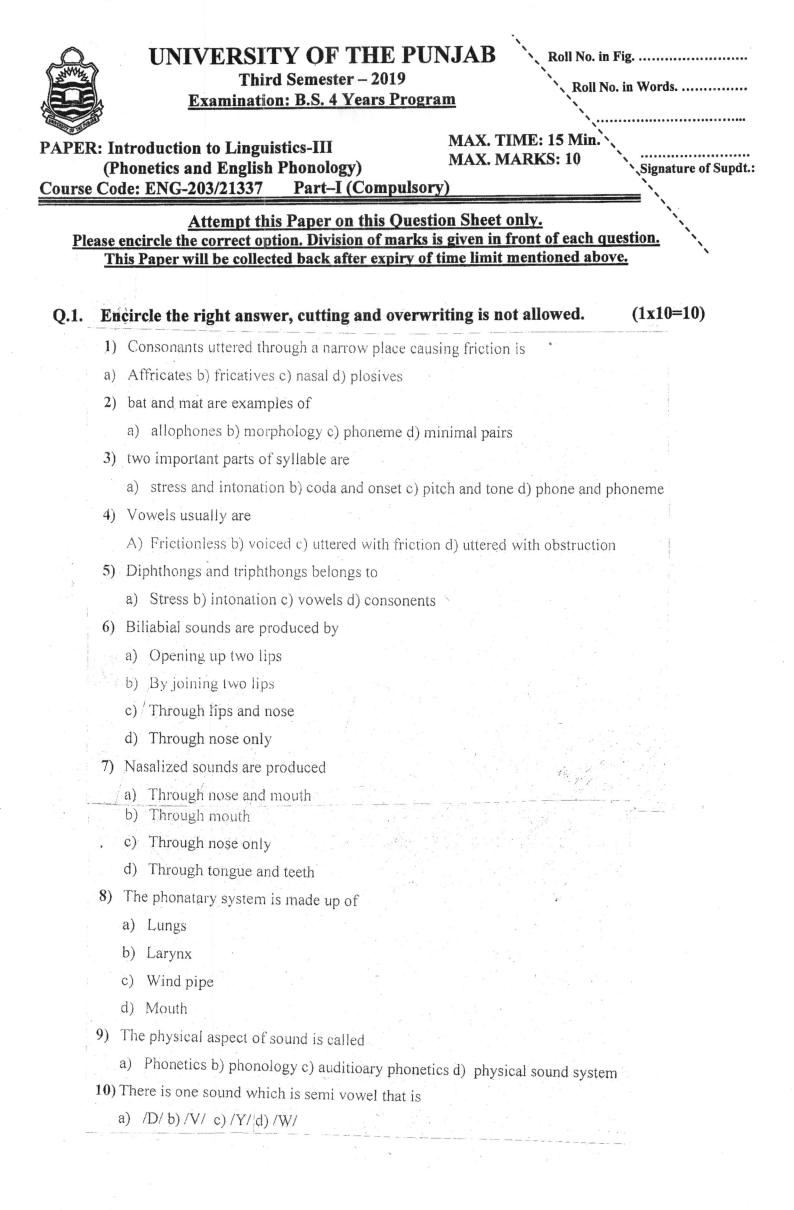
Q5 Prepare a CV for the following:

SALES MANAGER REQUIRED

Candidate who has done BS with at least 5-8 years of experience preferably in food industry. The candidate should possess:

- Excellent sales and negotiation skills.
- Good business sense.
- The ability to motivate and lead a team.
- Initiative and enthusiasm.
- Excellent communication.
- Good planning and organizational skills.
- The ability to work calmly under pressure.

		UNIVERSITY OF Third Semeste Examination: B.S. 4	er – 2019	Noll N	Fig o. in Words
		oduction to Literature-III (Fiction a e: ENG-202/21336 Part-I (C			Signature of Supdt.
Ple		<u>Attempt this Paper o</u> ncircle the correct option. Divisi	on of mark	s is given in front of each qu	
	<u>Thi</u>	is Paper will be collected back af	iter expiry o	of time limit mentioned above	ve.
Q.1.	Enc	ircle the right answer, cutting	g and overv	writing is not allowed.	(10x1=10)
i.	Tho	mas Hardy was:			
	(a)	An Optimist	(b)	A Pessimist	
	(c)	A Satirist	(d)	A Humorist	
ii.		nest Hemingway is a:	14) 14)		
	(a)	Novelist	(b)	Essayist	
·	(c)	Short Story Writer	(d)	Both A and C	
iii.		athan Swift is from:		a ath an	
	(a)	17 th Century	(b)	16 th Century	
iv.	(c)	19 th Century	(d)	18 th Century	
IV.	(a)	e Rose and the nightingale" pre Sacrifice		Τ	
	(a) (c)	Both Love and Sacrifice	(b)	Love	
v.		on was a:	(d)	None of all	
	(a)	Poet	(h)	Novelist	
	(c)	Essayist	(b) (d)	Short Story Writer	
vi.	• •	outh and age is a essay by:	(u)	Short Story writer	
		Francis Bacon	(b)	Jonathan Swift	
	(c)	Oscar Wilde	(d)	Levis	
vii.	Aral	by was written by:	()	20015	
	(a)	D.H. Lawarance	(b)	James Joyce	
	(c)	Oscar Wilde	(d)	Kake Chopin	
viii.	The	most famous writing of Jonatha	an Swift wa	IS:	
	(a)	Ode to Gracian Urn	(b)	Gullivers Travels	
	(c)	Hard Times	(d)	A Tale of two cities	
ix.		ine Gordimer was born in:			
	(a)	South Africa	(b)	Paris	
	(c) D	England	(d)	Norway	
х.		yard Kipling is the writer of the	•		
	(a)	Araby The String	(b)	The Fox	
	(c)	The String	(d)	The man who would be a	king





Third Semester – 2019 Examination: B.S. 4 Years Program

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PAPER: Introduction to Linguistics-III (Phonetics and English Phonology) Course Code: ENG-203/21337 Part – II MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of following:

$(4 \times 5 = 20)$

- 1) What are the pulmonic sounds (5)
- 2) What is phone and phoneme (5)
- 3) Wrtie down the places of articulation (5)
- 4) What is stress and intonation (5)

Q.3. Give detailed answers:

1) Write a note on manners of articulation 10

2) What do you know about phonology? 10

3) What is phonetics and what it its importance? 10

 $(3 \times 10 = 30)$

R: Eng e Code	lish-III (Communication Skills) : ENG-211/21104 Part–I (Compu	MAX. TIMI Isory) MAX. MAR	•
lease en	Attempt this Paper on this Q circle the correct option. Division of ma	uestion Sheet only arks is given in from	y.
This	Paper will be collected back after expi	ry of time limit mer	itioned above.
		n da antina da antin	n na na sa sana ina ja na sa sa sa sa sa
Q.1:- (a)	Choose the word most similar in meanin	g to the capitalized o	nes. (5)
(i)	DIGRESS:		
	(a) regress (b) devitae	(c) excess	(d) unpredictable
(ii)	TRANSLUCENT:		
	(a) milky (b) opaque	(c) clear	(d) glowing
(iii)	FALLACIOUS:		
Giv	(a) inhumane (b) false	(c) truthful	(d) vicious
(iv)	BOUNTY:		
(v)	(a) adorn (b) beautify OBDURATE:	(c) sugary	(d) reward
(1)	(a) stubborn (b) flexible		
		(c) truthful	(d) delicate
(b) F :			
	ll in the blanks with appropriate preposit		of every sentence. (5)
(i)	The atmosphere in this office is not congen	nialme.	
	(a) for (b) to	(c) with	(d) upon
(ii)	I am sending you the money you have aske	d	
(:::)	(a) in (b) for	(c) out	(d) up
(iii)	The milk quickly turned butter.		
(in)	(a) in (b) over	(c) to	(d) into
(iv)	They will be back November. (a) till (b) until		
	(a) till (b) until	(c) by	(d) while



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: English-III (Communication Skills) Course Code: ENG-211/21104 Part – II

		••
D	N	
KO	No	
••••		
MAX	TIME: 2 Hrs. 45 M	in.
MAX	MARKS: 50	

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

QUESTIONS WITH SHORT ANSWERS

Q.2. Read the following passage carefully and answer the questions given at the end. (20)

To be a good teacher, you need some of the gifts of a good actor. You must be able to hold the attention and interest of your audience; you must be a clear speaker with a good pleasing voice and you must be able to act when you are teaching in order to make its meanings clear. Watch a good teacher, you will see he does not sit motionless before his class; he stands the whole time he is teaching; and he walks about using his arms, hands and finger's to help him in his explanation and his face to express his feelings. Listen to him and you will hear the loudness, the quality and the musical note of his voice always changing according to what he is teaching. But the fact that a good teacher has some of the gifts of a good actor does not mean that he will indeed be able to act on the-stage, for there are very important differences between the teachers' work and actors' work. The actor has to speak words which he has learnt by heart, he has to repeat certain dialogues which he has learnt earliest. Even his movements and the ways in which he uses his voice are usually fixed- before. The good teacher works in a different way because his audiences take an active part in his play. They ask questions, and if they do not understand something, they will say so. So the teacher has to suit his act to the need of his audience that is his class. I know many teachers who were fine actors in the class but were unable to take part in a stage play because their brains would not keep strictly to what another had written.

Questions:

	1- Suggest a suitable title for the passage.	[2]
	2- What is the difference between a good teacher and a good actor?	[4]
	3- What is the role of teacher in nation building?	[3]
	4- How can a good teacher be compared to a good actor?	[3]
	5- Who, according to you, is a good teacher?	[3]
	6- Make a precis of the above passage.	[5]
QUI	ETSIONS WITH BRIEF ANSWERS	
Q.3.	Write three connected paragraphs on women empowment.	(10)
Q. 4	Write a letter to the Distirct Health Officer about the lack of medical fa bital/Dispensaries of your district.	
1105	stan Dispensaries of your district.	(10)
Q.5	Write down steps for preparing an effective Oral presentation and stra	tegies for effective $(6+4)$

		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	d Semester – n: B.S. 4 Yea		`` Roll	No. in Words
	R: English-I e Code: ENG	•	Communicat Part–I (Con	IUII-I)	X. TIME: 15 Min X. MARKS: 10	Signature of Su
Pl	ease encircle (his Question Sl	neet only. n in front of each	question.
-					imit mentioned al	
1.	Encircle th	e right answ	er, cutting ar	nd overwriting	is not allowed.	(1x10=10)
i.	1) Poverty					
	a) lavish	b) beggary	c) abundance	d) wealth		
	2) appendix					
	a) appendage	b)principal	c) contents	d) table	S	
	3) compensate	1				
	a) deprive	b) damage	d) to beg	d) reimburse		
	4) Magnificent					ej i sa se i Li ti sjina se i
-	a) beautiful in a	a grand way	b) magnify	c) clumsy	d) bad	
	5) Malign				· Linden (* 1997)	
	a) to speak goo	d about someo	ne b) to :	speak bad about s	omeone c)fr	eedom d) plain
	6) placid					
	a) mixed	b) peaceful	c)caution	d)carelessness		
	7) Immortal					
	a) everlasting	b) subject to c	leath c) dea	ath e)decay	1	
	8) innovation					
	a) something n	ew b) los	c)stea	d) resol	ution	
	9)pacifier		-,		· · ·	
	a) agitator	b) mediator	c) diplomat	d) conquerer		
	10) interruptio		e, apientae	a, conquerer		
	10) menupilo					



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER:	English-III	(Business	Communication-I)	
Course C	ode: ENG-2	21/21105	Part – II	

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

- Q.2. Give short answers of the following:
 - a) What is the difference between intrapersonal and interpersonal communication?(5)
 - b) Explain the difference between heading and letter head?(5)
 - c) Explain briefly the types of communication that take place within an organization?(5)
 - d) What are the barriers that cause hindrance in listening? (5)

Q.3. Give brief answers.

 $(3 \times 10 = 30)$

- A Discuss in detail the parts of a business letter? (10 marks)
- **b** .Define listening and what are the ways to improve it? (10 marks)
- (C) Explain in detail the strategies to convey good and bad messages? (10 marks)

MAX. MARKS: 50 WER SHEET PROVIDEI

MAX. TIME: 2 Hrs. 45 Min.

Roll No.

 $(4 \times 5 = 20)$

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

Third Semester – 2019 Examination: B.S. 4 Years Program

MAX. TIME: 15 Min.

PAPER: Communication Skills (IT)MAX. TIME: 15 Min.Course Code: ENG-231/21452Part–I (Compulsory)MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

<u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

Q. 1. (A) Encircle the correct answer.

i. Eliminating wordy expressions in communication is known as____

- a. completeness
- b. consideration
- c. conciseness
- d. concreteness

ii. Vertical communication takes place between_____

- a. Superior to subordinate
- b. Subordinate to superior
- c. Employees with same status
- d. None of these

iii. Including 'heading-letter head' a business letter has _____ parts.

- a. 6
- b. 8
- c. 10
- d. 7.

iv. Some messages are written on dark or bright colored papers because

- a. of informal nature of the message
- b. the message is as important as the substance
- c. of formal nature of the message
- d. none of these

is the most common form of communication between people or departments within

- an organization.
- a. Formal letter
- b. E-mails
- c. Applications
- d. Memorandum



Third Semester – 2019 Examination: B.S. 4 Years Program

Roll No	
MAX. TIME: 2 Hrs. 45 Min	
MAX. MARKS: 50	

PAPER: Communication Skills (IT) Course Code: ENG-231/21452 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers to the following questions.

(5x4=20)

i. Explain the organization plan for a successful presentation.

ii. What is the structure of a memorandum?

iii. Explain the procedure of taking minutes of a meeting?

iv. What do you mean by non-verbal communication?

v. What is the use of audio-visual aids in business communication?

Q.3. Write brief answers to the following questions.

(3x10=30)

i. What are the principles of communication? How do you prove that they overlap with one another?

ii. What are latest/modern channels of communication? Explain them in detail.

iii. Create a resume based on the following information.

Name:

: Muhammad Athar

Qualification:

: BS (IT)

Experience:

: 5 Years as IT Assistant Manager in ABC Company

UNIVERSITY OF THE PUNJAB Third Semester – 2019

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Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Content Optional B (History) Course Code: EDE-253 Part-I (Compulsory) MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

نوٹ: ہر سو ال کے جار مکنہ جوابات میں سے درست جواب (/) کا نشان لگائیں۔ (1x10=10)ا_حاج بن يوسف كون تقا-(1) شاعر (ب) مورز (ج) خلیفه (د) ان میں سے کوئی نہیں ۲۔ کس عمامی خلیفہ نے ساہ کے بجائے سز رنگ اختیار کیا۔ (۱) مامول (ب) منصور (ج) متوکل (د) باردن ٣- حفرت عمر بن عبد العزيز خليفه كهلات بي-(۱) تيرے (ب) دومرے (ج) پانچویں (ر) يوتع ٣- امين الرشيد كا وزير كون تقا-(۱) فظل بن ربيع (ب) فظل بن مهل (ج) لفر بن سار (د) افشين حيد ۵ مصرت علی اور مصرت عاتشہ کے مابین لڑی جانے والی جنگ کہلاتی ہے۔ (۱) جل مورد (ب) جل جل (ج) جل مغین (د) جل یموک ٢ حضرت عمر كما عرصه خلافت كتنا --ا) ۱۰ (ب) ۱۳ (\mathbf{y}) (5) 1 ے۔ بغداد کس دریا کے کنارے واقع ہے۔ فرات (د) (٦) ثيل (ب) وجله (٦) ستدھ ٨_ بنو عماس كا اصل باني كي كها جاتا ہے -(۱) السفاح (ب) منصور (ج) مهدى بادى (,) وصلح حديث ط يايا-(۱) ۲۹ (۰) ۲۹ (۰) ۲۹ (۰) (۱) 550 •ا۔ ایوسلم خرا سانی کا اصل نام کیا تھا ؟ (۱) عبدالله (ب) عبدالرحن (ج) محمد بن على (د) ابراتيم بن عثان



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Content Optional B (History) Course Code: EDE-253 Part – II Roll No. MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

درج ذیل سوالات کے جوابات این کالی پر تحریر کریں ا۔ سوال نمبر۲_ مختفر جواب دس_ $(\Delta x)^{r} = r \cdot)$ ا۔ سراقہ بن بعضم کے بارے میں تین سطور کھیں۔ ۲۔ بنو امیہ کی ناکامی کے جار اساب لکھیں۔ ۳۔ میثاق مدینہ کی جار شرائط ککھیں۔ ۲۔ اتاخ کون تھا ۔ اس کے ساتھ کیہا سلوک کیا گیا؟ ۵_ معتزله کا عقيده کيا تھا؟ سوال نمبر ۲۰۔ درج ذیل سوالات کے تفصیلی جوایات تحریر کریں۔ ا-مامول الرشید کے عہد خلافت کو سنہری زمانہ کیوں کہا جاتا ہے؟ ۲۔ خطبہ جمتہ الوداع پر تفصیلی نوٹ ککھیں۔ 1• ٣- حضرت الويكر صديق كو بطور خليفه كن مشكلات كا سامنا كرنا يزا؟ i+

	R: Introduction 1 Code: GEOG-211	to Geography /GEN-21115 Part–I	BEAN BEA	ME: 15 Min. RKS: 10 Signature of Sup
Ple	ease encircle the co	orrect option. Divisi	n this Question Sheet or on of marks is given in fr ter expiry of time limit m	ont of each question.
Q.1.	Encircle the rig	ht answer, cutting	and overwriting is not	allowed. (1x10=10)
	1. The average dis	stance between sun and	earth is million l	km.
	a) 145	b) 150	c) 155	d) 160
10.				
. · · ·	2. The ozone layer	shields the earth surfa	ce from	
	a) Smoke	b) Dust	c) Ultra violet rays	d) None of these
4				
Д		and the second second second second second second second second second second second second second second second	e largest Planet in Solar Syst	
	a) Earth	b) Mars	c) Jupiter	d) Neptune
		Cald of an and a dist		
		b) Climatology	deals with map making.	d) Marria 641 and
	a) Cartography	b) Chinatology	c) Surveying	d) None of these
	5. tides o	ccur during when Moo	n is either full or new	Provide State
	a) Neap tides	b) Spring tides	c) ebb tide	d) None of these
		-) -18		
	6is	considered the earliest	geological era.	
	a) Proterozoic	b) Paleozoic	c) Mesozoic	d) Cenozoic
	7. The atmospheri	c humidity is measured	by	
	a) Anemometer	b) Barometer	c) Hygrometer	d) Thermometer
	8. Which of the fol	lowing is considered th	e smallest ocean in the world	?
	a) Pacific	b) Atlantic	c) Indian	d) Arctic
	- 			
1	9. Which of the fol		ound in the Atmosphere?	
	a) Nitrogen	b) Carbon Dioxide	c) Oxygen	d) Argon
		ig in the universe is:		
	a) Sound	b) light	c) water	d) None of these



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Introduction to Geography Course Code: GEOG-211/GEN-21115 Part – II Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Give short answers to the following questions: (02 marks each)

- 1. What are the main themes of Geography?
- 2. Enlist types of igneous rocks.
- 3. What is International Date Line?
- 4. Differentiate between Solar and Lunar Eclipses.
- 5. What is Geological Time Scale?
- 6. Differentiate between rotation and revolution of Earth.
- 7. Briefly tell the composition of Atmosphere.
- 8. What is meant by an earthquake?
- 9. What is continental shield?
- 10. Name the continents of the world.

Q3. Attempt all questions (10 marks each)

(3x10=30)

- 1. Define Geography. Also briefly discuss the main branches of Human Geography.
- 2. Write a detailed note on the internal structure of the Earth.
- 3. Write a comprehensive note on the ocean currents of Atlantic Ocean.

(2x10=20)

	Third Semester – 2019 Examination: B.S. 4 Years Pros	`\;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
APER: Marria Course Code: G	age and Family Laws in Pakistan S-201 Part–I (Compulsory)	MAX. TIME: 15 Min. \ MAX. MARKS: 10	odt.:
Please encirc	<u>Attempt this Paper on this Que</u> le the correct option. Division of mark	stion Sheet only. is is given in front of each question.	
This Pa	per will be collected back after expiry	of time limit mentioned above.	
Q.1. Encircle	e the right answer, cutting and over	writing is not allowed. (1x10=10)	
) Domestic violence	(protection and Prevention) Bill was passed		
		1)- گھريلوتشدد(روڪ تھام اور تحفظ) بل حمب متعارف جوا؟	
i) 2012	b) 2018 C)2005	d) 2016	
2) Anti-women	practices (Ammendment in Panal Code) Act	was passed in:	- <u>.</u> : . :
20 C)		2) خواتین مخالف کاروائیوں کی روک تھام (فوجداری قانون میں ترمیم) کامسودہ کب محرز	
a) 2010		d) 2018	
	nal Code 1860 Article 498 (B) and 498 (C) pr	ovides protection to	
		3) تعزيرات پاکستان1860 کے تحت دفعات 498 بیاور 498 تی کس حق کا تحفظ کرتی	
a) Inheritance		n Domestic Violence d) Freedom fro ^m Dowry	
		a) جائداد میں حصہ (b) بچین کی شادی (c) گھر ملوتشد دہے ج	
4) The punishment (or Exchange Marriage could be:		r
() The pamerine		4) بدلہ کیے نتیج میں کتنی سزا ہو سکتی ہے؟	
a) One to two year	b) Two to seven year c)Six M		* . * ·
a) one to two year	ں d) ان میں ہے کوئی نہیں		E.
5) The fine for avia	lating Right t oInheritance is:		
by the file for after		5) جائداد میں حصد ندد بنے کی صورت میں کتناجر ماندہ وسکتا ہے؟	
a) Ten Lackh Rs.	b) 5 Lakhs Rs. c) 1 Lakhs Rs.	d) None of them	
	یں بے کوئی نہیں		
6) Dissolution of M	Islim Marriages Act was passed in:		
of Dissolution of Me		6) میلمانوں میں شادی کے بعد علیحد گی کا قانون س کب متعارف جوا؟	
a) 1939 b)	1935 b) 1920	d) 1945	
7) Iddat refers to:			
		7) عدت ےمراد ہے؟	
a) Child Marriage	b) Form of Dowry	c) Form of Dower d) None of them	
	ternational Document which mainly adress:		
		٤) CDDAW ایک بین الاقوامی دستاد یز ہے جو مینا دی طور پر۔۔۔۔کا خاتمہ کرتی۔	3
a) Discrimination		d Marriage d) Dowry	
a) Discrimination	b) Domestic violence ورا مراجع	a) امتیازی سلوک b) گھریلوتشرد (c) بچین کی شادی	÷.
) Maintanana -f		a) العياري شوت D) هريوسدد ما) «يان في سادن	
 Maintenance refe 			
Dridel Offe	b) Brouteien of Sub-interest	9) قوامیت سے مراد: Non of them (م) Non of them	
a) Bridal Gifts	b) Provision of Subsistances to woman b		
		a) دلہن کودیئے کے تحاکف (b) نان نفقہ (c) ایک سے زیادہ شاد	
io) iviusiim Family L	aw Ordinance was passed in:	CI- SIM C MATIO (40	
		MFLO (10 كب متعارف بوا؟	



Third Semester – 2019

Examination: B.S. 4 Years Program

PAPER: Marriage and Family Laws in Pakistan Course Code: GS-201 Part – II

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ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Ο.	.2. Questions with short answers.	(4x5=20)
		مخفرسوالات
	of	
1)	Explain the laws child custody in Pakistan.	
		1) بچوں کی حضانت کے قوانین بیان کیرں ^ک س ^م م ^ی ل
2)	Highlight the Importance of "Dissolution of Muslim Marriages A	Act.
		°2) مسلمانوں کی شادی کے خاتمے کے قانون کی اہمیت پر دوشی ڈالیس۔
3)	Explain the Inheritance laws for woman in Pakistan.	
		3) پاکستان میں خوانتین کی دراشت کے قوانتین کی اہمیت کی دضاحت کریں۔
4)	Define child Marriage. Highlight the legal protection against	Child marriage in Pakistan.
	ی بیان کریں ۔	4) بچون کی شادی نے کیا مراد ہے؟ پاکستان میں بچوں کی شادی سے تحفظ کے قوانیں
Q	.3. Questions with brief answers.	(3x10=30)

i. Define Polygamy. Explain the social and legal situation of polygamy in (10) Pakistan.

کثرت الازدان سے کیام ادب ؟ پاکستان میں کثرت الازداج کی قانونی ادر معاشرت صورت حال کا جائزہ پیش کریں۔ .i

ii. Write a detailed note on the importance of Muslim Family Law Ordinance in (10) Pakistan.

iii. Discuss the issue of dowry in Pakistan and also describe the critical analysis of (10) its legal prohibition in Pakistan.

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Roll No. in Fig.

Roll No. in Words.

Examination: B.S. 4 Years Program

PAPER: Feminist Theories Course Code: GS-202 Part–I (Compulsory)

MAX. TIME: 15 Min.

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

<u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

- 1. 'Patriarchy as a political institution' the idea was given by Kate Millet in her book:
 - a) Feminine Mystique
 - b) Sexual Politics
 - c) Vindication of the rights of women
 - d) All of the above

2. "The Vindication of the Rights of Women" (1792) written by:

- a) Virginia Woelf
- b) Betty Frieden
- c) Marry Wollstonecraft
- d) Simone De Beauvoir

3. Which country first gave the right to vote to women in 1893:

- a) New Zealand
- b) Australia
- c) Canada
- d) None of them

4. Marxist feminism claim that:

- a) Ignore race and class in feminism
- b) Don't ignore race and class in feminism
- c) Ignore patriarchy
- d) All of the above

5. Gender division of labour and private sphere of women should be valued:

- a) Socialist feminism
- b) Liberal Feminism
- c) Radical Feminism
- d) Marxist Feminism

UNIVE	ERSITY OF THE PUNJAB	
BUNDE	Third Semester – 2019	,• • • • • • • • • • • • • • • • • • •
Exa	mination: B.S. 4 Years Program	Roll No.
PAPER: Feminist The	ories	MAX, TIME: 2 Hrs. 45 Min.
Course Code: GS-202	Part – II	MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Short answers questions.

(4x5=20)

(3x10=30)

1. Writes features of Socialist feminism.

2. Explain the feminist movement in Pakistan.

3. Explain the emerging issues highlighted by Postmodern Feminism.

4. Describe Eco-feminism?

Q.3. Detailed answers questions.

1. Write in detail about the main features of Liberal Feminism.

2. Define Islamic Feminism. Explain how Islamic feminists have advocated gender equality in the light of Quran and Sunnah.

3. Write note about any two Pakistani feminists from whom you are inspired.

PAPER	R: V	<u>H</u> Vomen and	VERSITY OF THE PU Third Semester – 2019 Examination: B.S. 4 Years Prog d Economic Empowerment Part–I (Compulsory)	Roll No. in Words	
Pla	9966	encircle the	Attempt this Paper on this Ques	tion Sheet only. is is given in front of each question.	
11	T	nis Paper w	ill be collected back after expiry o	f time limit mentioned above.	
Q.1.	En	circle the	right answer, cutting and overv	vriting is not allowed. (1x10=10)	
	1.	Power	involves socially sanctioned thr	eats of violence and intimidation.	
		a)	With		
		b)	Within		
		c)	То		8 8
		d)	Over		
·	2.			e in power necessarily involves another's	
4		loss of pov			
			Distributive		
		b)	Zero-sum		
		c)	Finite		
			Infinite		
	3.			them is the concept presented in Human	
			ent Report that stresses on peoples'	······································	
	··	,	Participation		
		b)	Equality		
		c)	Integration		
		d)	Justice		
	4.	Empoweri	ment involves challenging the forms	of which compel people to play a	
				table, or in ways which deny their human	
		0	ording to Oxfam.		
		a)	Inequality		
		b)	Oppression		<u>}-</u>
	 	c)	Discrimination		
		d)	Injustice		

- 5. Jo Rowland points out that empowerment is a _____ process.
 - a) bottom-up
 - b) top-down
 - c) lengthy
 - d) ground
- 6. According to feminist perspective, women's empowerment is the liberation of men from false value systems and ideologies of oppression and construction of a _______ society for all.

P.T.O.

- a) Just
- b) Desired
- c) Wise
- d) Humane



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER:	Women and	Economic Empowerment
Course C	ode: GS-203	Part – II

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MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of following:

 $(5 \ge 4 = 20)$

- 1. Power over
- 2. Power to
- 3. Power with
- 4. Power within
- 5. Inadequate processes

Q.3. Give detailed answers:

$(3 \times 10 = 30)$

- What are gender-specific constraints creating gender inequalities in the labour market?
- 11. What is entrepreneurship? Discuss entrepreneurship development with reference to microfinancing in Pakistan.
- 111. What is multidimensional poverty? How does it keep women out of the mainstream development, Explain?



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Gender and Religion Course Code: GS-204 Part – II Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers.

 $(5 \times 4 = 20)$

- (i) Write a brief note on Semitic (بای) and non-Semitic (غیر مای) religions.
- (ii) Give a short note on equality between men and women in Islam.
- (iii) Write short note on Gender Harassment.
- (iv) Give a precise definition explaining women empowerment.
- (v) What is the status of women in Bhuddhism?

Q.3. Give Brief Answer

$(3 \ge 10 = 30)$

- (i) Write a comprehensive note on Nikkah and Divorce in Islam.
- (ii) The status of women in the different societies of the world.
- (iii) Describe the role of religion in human society.

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

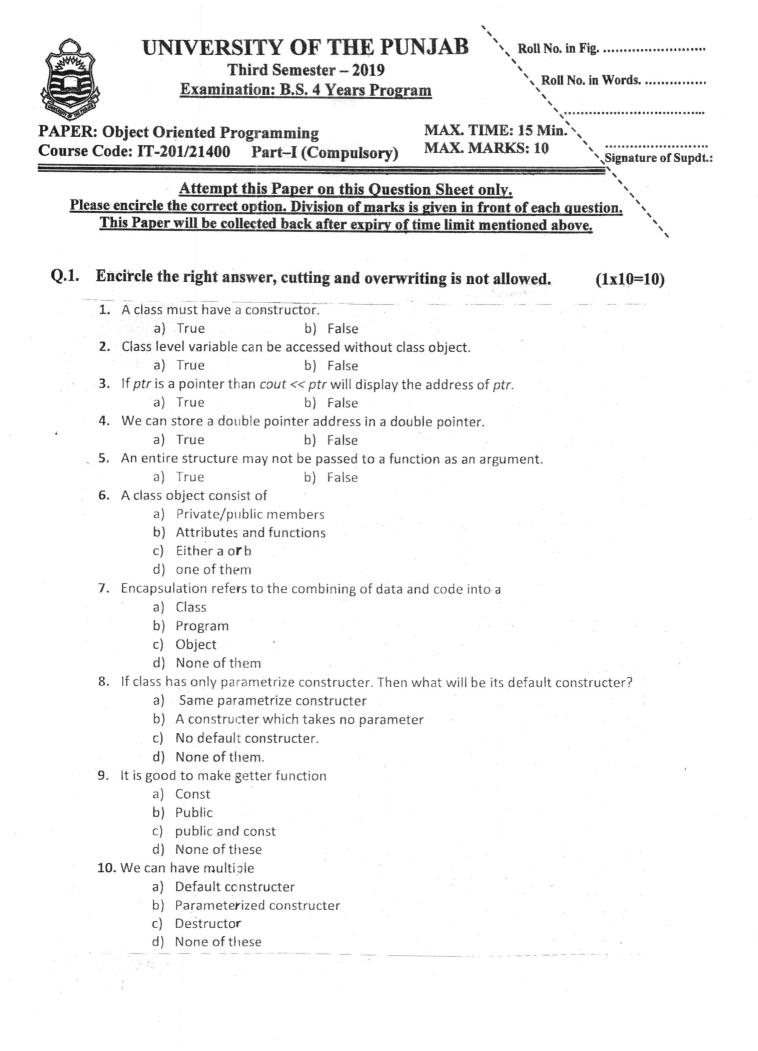
PAPER: Gender and Psychology Course Code: GS-205 Part--I (Compulsory) MAX. TIME: 15 Min.

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1.	1. Encircle the right answer, cutting and overwriting is not allowed.									
i.	 Development psychologists believe that two (a) Motivation and emotion (c) Genetic make up and experience 	o factors (b) (d)	s that influence human develo Self and others Rewards and Punishments	pment are:						
ii.	Motor skills are largely a result of: (a) Leaning (c) Practice	(b) (d)	Maturational process Observing others							
iii.	The concept of intelligence is closely relate(a) Motivation(c) Perception	d to: (b) (d)	Learning Cognition							
iv.	 Smoking during pregnancy is associated with (a) High intelligence in fetus (c) High mortality 	ith: (b) (d)	Low birth Weight Both C & D							
v.	 Androgyny is having: (a) Male characteristics (c) Both masculine and feminine Chara (d) None of above 	(b) acteristic	Masculine characteristics							
vi.	Male chromosomes are: (a) XX (c) XZ	(b) (d)	XY YX							
vii.	Gender as an area of research teaching and (a) 1860 (c) 1947	action l (b) (d)	nas emerged only after: 1910 1975							
viii.	 Androgynous peson show tracts (a) Positive masculine and faminine (c) Positive masculine 	s. (b) (d)	Negative masculine Positive feminine							
ix.	Feminist research is: (a) Interdisplinary (c) Cross displinary	(b) (d)	Multi displinary All of the above							
x.	 Feminist research aims at: (a) addressing women's issues with wo (b) To study women as an object (c) Promotion of women research scho (d) Study of women's education 		perspective							







Third Semester – 2019 Examination: B.S. 4 Years Program

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Roll No.	
Roll No.	•
MAX. TIME: 2 Hrs. 45 Mi	n.
MAX. MARKS: 50	

(5x4=20)

P.T.O.

PAPER: Object Oriented Programming Course Code: IT-201/21400 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

```
Q.2.
      Write short answers to the following questions.
      I. Write down the output of the following code.
   #include<iostream>
        using namespace std;
        class A{
              int i A;
        public:
              A(int x)\{i_A = x;\}
        };
        int main(){
              A a;
              cout<<"Hello"<<endl;</pre>
              return 0;
        }
      II. What is difference between a Class and Object?
     III. Why Operator overloading is used?
     IV. Write the output of the following code
             #include<iostream>
             using namespace std;
             class A{
             public:
               A(){
                     cout << "A" << endl;</pre>
               }
               ~A(){
                     cout << "~A" << endl;</pre>
               }
             };
             class B : A{
             public:
               B(){
                     cout << "B" << endl;</pre>
               }
               ~B(){
                     cout << "~B" << endl;</pre>
               }
             };
             int main(){
               Bb;
               return 0;
              }
```

Q.3. Long questions.

(7+7+7+9=30)

We are going to create class of Matrix. You have to write the definition of the following function given below in the Matrix class.

class Matrix { private:

int noOfRows; //Total number of rows int noOfColumns //Total number of columns int ** data; //Matrix data

public:

Matrix(int noOfRows, int noOfColums); // If noOfRows > 0 and noOfColumns then assign it and allocate the rows in the heap. Otherwise assign 0 to all.

void displayData(); // Display all records present in data.

~Matrix(); // Deallocate the memory allocated by Matrix.

Matrix(const Matrix & ref) // copy construtor

};

You have to write down the definition of following functions.

- 1. Matrix(int noOfRows, int noOfColums)
- 2. void displayData(); // Display all records present in data.
- 3. -Matrix(); // Deallocate the memory allocated by Matrix.
- 4. Matrix(const Matrix & ref) // copy construtor

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program
APER: Co ourse Cod	omputer Organization and Assembly Language MAX. TIME: 15 Min.`. le: IT-203/21402 Part–I (Compulsory) MAX. MARKS: 10
	Attempt this Paper on this Question Sheet only. encircle the correct option. Division of marks is given in front of each question. is Paper will be collected back after expiry of time limit mentioned above.
Q.1. En	circle the right answer, cutting and overwriting is not allowed. (1x10=10)
Ι.	Assume AL=C5;BL=48 what will be status of sign flag and carry flag after the execution
	of instruction SUB AL, BL?
	a. Sign flag reset ,Carry flag resetb. Sign flag reset ,Carry flag set
	c. Sign flag set ,Carry flag reset
	d. Sign flag set, Carry flag set
н.	How many times the loop will executed in the following code?
	AA: MOV CH,0 MOV DL,'A'
	MOV AH,02
	INT 21H INC CH
	JNZ AA
	a. Zero time b. One time c. 255 time d.256 time
III.	SP register is associated with by default. a. DS b. CS c. ES d. SS
IV.	Which instruction will invert bit#3,4, and 5 of Register DL keeping the remain bits unchang :d.
	a. NOT DL,26h c. AND DL,13h
v.	b. X OR DL,13h d. None of above
	The input character getting from console is placed inregister.a. AXb. AHc. ALd. DL
VI.	For display a character on screen which number is placed in ah register.
VII.	a. 01h b.02h c.09h d. None of these
* .1.	Assume the following data is loaded at offset 01A0h: V1 DB 41h
1	V2 DW 5678h
	V3 DB 'PU Lahore'
	Give the offset address assigned to variable C.a. 01A3b. 01A8c. 01A2d. None of above
VIII.	Assume SI=0100,DI=0200 Assume Direction Flag is reset. What would be the contents of
	SI and DI after execution of instruction of LOADSB twice?
, c	a. SI=0102 DI=0200 c. SI=0100 DI=0202
	b. SI=0104 DI=0200 d. SI=0100 DI=0204
IX.	
	Assume SP=0048. What would be the value of SP register after execution of PUSH BX instruction twice?
Х.	d. 51 = 0052
4.01	If the decimal number 20 is shifted left by 2 bits the new value will be?a. 10b. 20c. 80d.160



Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

(4x5=20)

PAPER: Computer Organization and Assembly Language Course Code: IT-203/21402 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers to the following questions.

- I. Assume DL contains the ASCII code of Lower case letter. Write instructions to convert it to upper case and print it.(use some logic instruction for conversion)
- II. Assume the following data is loaded starting at offset 0300h:

A	DB	41h
В	DW	5678h
B1	DD	1234h
С	DB	'HELLO'

Give the offset address assigned to variable C.

- **III.** A memory location has physical address 93FC4h that corresponds to offset address 1FC4h. Calculate the segment address and the maximum possible physical address in this segment.
- **IV.** Assume SI=0100, DI=0200;CX=0005. Assume Direction flag is set. What would be the contents of **SI**, DI and CX after the execution of instruction CMPSW twice?

Q.3. Long questions.

(2x15=30)

I. Write an Assembly Language Program that prompts the user to enter two string, than it will find that the second string is the substring of first or not.

Sample execution:

i)
Enter first string: Hello World Enter second string: ello Yes it is Substring
ii)
Enter first string: Hello World Enter second string: elloabc Not a substring

II.

a) Write down the note on all string instructions and also explain them with help of examples.

b) Write down the name of different registers, also explain the purpose of all register that are used?

Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

(1x10=10)

P.T.O.

PAPER: Human Resource Management Course Code: HR-211/GEN-21142 Part-I (Compulsory) MAX. TIME: 15 Min. \ MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Encircle the right answer, cutting and overwriting is not allowed.

- **1.** The purpose of a strategic plan it to identify ways to create or maintain a (n)
 - a. Differential advantage
 - b. Competitive advantage
 - c. Instrumental advantage
 - d. Success factor
- 2. A ______ aims to measure an array of possible predictors for job performance.
 - a. Test validity
 - **b.** Test criterion
 - c. Test battery
 - d. Job analysis
- 3. The expertise of human resource departments became indispensable with the _
 - a. Passing of equal employment legislation
 - b. Increase of women in the workforce
 - c. Movement of jobs to countries with cheaper labor costs
 - d. Both a and b
- 4. Most people who are classified as nontraditional workers are
 - a. Contingent workers
 - b. Independent contractors
 - c. Job sharing
 - d. Working multiple jobs
- 5. Participatively set goals result in higher performance than assigned goals when _____
 - a. Participatively set goals are more difficult
 - b. Assigned goals are more difficult
 - c. The rewards are also higher
 - d. Participatively set goals are used consistently
- 6. Herzberg's Hygiene-Motivator theory of motivation suggests that intrinsic factors like
 - cause satisfaction.
 - a. Working conditions
 - b. Pay
 - c. Achievementd. Incentive pay



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER:	Human	Resource	Managem	ent
Course C	Code: HF	R-211/GEN	N-21142	Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

- 1. What are the three forms of sexual harassment? Describe each form.
- 2. What are the steps involved in conducting a job analysis. Describe each step.
- 3. Write down guidelines for managing a testing program.
- 4. What are the advantages and disadvantages of using an employee referral campaign for recruitment purposes?
- 5. What are the key steps for launching a successful EAP program?

Q.3. Questions with brief answers.

- What is strategic management? Briefly describe the six steps in the strategic management process. 10
- 2. What are advantages of on-the-job training? Describe the four steps in job instruction. 10
- 3. What are the four decisions that affect a firm's promotion process? Explain the effect
 - each decision could have on promotional decisions. 10

Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

 $(5 \times 4 = 20)$

 $(3 \times 10 = 30)$

UNIVERSITY OF THE PUNJAB Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

MAX. TIME: 15 Min. **PAPER:** Human Resource Development Part–I (Compulsory) MAX. MARKS: 10 Course Code: HR-212/GEN-21112 Signature of Supdt.: Attempt this Paper on this Question Sheet only. Please encircle the correct option. 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. (1x10=10)refers to the learning opportunities designed to help employees grow. i. Training Development (a) (b) Education (d) All of the above (c) Which of the following is a benefit of employee training? ii. Improves morale (a) Helps people identify with organizational goals (b) Provides a good climate for learning, growth and co - ordination (c) (d) None of the above iii. According to social learning theory, self-efficacy is defined as a person's beliefs. (a) About their ability to successfully perform a particular task or activity (b) About their overall worth or sense of value (c) That performing a particular task will lead to a given outcomes (d) That the cause of their behavior is something external to themselves iv. Organization culture is: Illegal to talk about (a) Of no interest to training and development (b) (c) A set of beliefs and behaviors that are shared by members of the organization A factor only for management level employees. (d) Maslow's need theory of motivation: v. Contains 2 factors (a) (b) Contains 5 categories of needs Focuses on existence, relatedness and growth (c) (d) None of these are true vi. Rearrange the steps in training programme. What should be the level of training? (a) (b) What principles of learning? (c) Who are the trainees? What methods and techniques? (d) Where to conduct the programme? (e) (f) Who are the trainers? vii. Human Resource Development is best defined as: A set of systematic and planned activities designed by an organization to provide its (a) members with the necessary skills to meet current and future job demands. A set of systematic and planned activities designed by an organization to provide its (b) members with the necessary skills to meet past job demands. (c) A fancy name for being a Personnel Manager (d) Just another form of apprenticeship training. A main distinction between training and development is that developmental activities are viii. generally: (a) More focused on specific job skills (b) Less expensive than training activities Becoming less common as organizations deal with their changing business environment (c) (d)

- (a) (b)
- (c) Eliminating the skills gap
- Which of these is an off the job training method? x.
 - Television (a)
 - Orientation Training (c)
- Job Rotation (b)
- (d) Coaching



More focused on long-term or future responsibilities.

ix. A challenge currently facing the HRD field is:

- Increasing workforce diversity
 - (d)
- Competing in a global economy All of these are challenges HRD faces

		<u>E</u>	T <u>xamin</u>	Third ation	Semes : B.S.	F THE PU ater – 2019 4 Years Progr	<u>am</u>		Roll No.		
		R: Contempora Code: ISE-201	•					K. TIME: 1 K. MARKS	•	`,Signat	ure of Supdt.:
:	Ple	<u>A</u> ease encircle the This Paper wil	correc	t optic	on. Div		is given	in front of			
4	Q.1.	Encircle the r	ight a	nswei	r, cutti	ng and overw	riting i	s not allov	ved.	(1x10=	=10)
	i.	Second session of (a) 1969	f OIC h		Pakistan (b)	1989	?	c) [197] ستان میں کب ہوا	دوسر ااجلاس پاک		.i
	ii.	Floja is city of:	1974	(5)		1989	(ب)		1969	(الف)	
		(a) Iraq			(b)	Afghanistan		(c) Egy	rpt لک کا شہر ہے؟	فلوجہ س ما	.ii
			·	(5)		-	(ب)		عراق	(الف)	
	iii.	The author of "Br (a) Ghulam J			Muslim	Ummah" is: (b) Sarwat		(c) بخ" کے مصنف کا		r Moham	imad .iii
		ł.	مها تير م	(7.)		يشورية بصولية . تر	·		سیہ کی مصر مار غلام حیادتی برق	للت المل	.111
	iv.	Write down the ca (a) Doha	/** •	-		Oman		(c) Mas	shhad		
								; ~	رالحكومت كانام.		.iv
	v.	Which is the large	مشہد st coun	(ひ) try of l	Muslim		(Ļ)		دوجہ	(الف)	
		(a) Uzbekista		itry of f	(b)	Kazakhstan		c) Kyr بر ااسلامی ملک کوا	gyzstan ظے سب سے	ر قبہ کے لچا	.V
з		نان	كرغزية	(5)		قاز قستان	(ب)		ازبكستان	(الف)	
	vi.	Which country's (a) Morocco	old nam	e is M	esopota (b)	mia? Iran		(c) Iraq			
			*	(7)				انام ہے؟	ب ^ا کس ملک کا پرانا بر		.vi
	vii.	Where Caspian Se (a) Middle Ea		(ひ) ated?	(b)	ایران Central Asia	(ب)	(c) Nor	مراکش th Africa	(الف)	
		(u) Initiativ Le				Contral Asia			ن کس خطہ میں و	بجيره كيسيد	.vii
			شالی افر	(5)		وسطيا يشيإ	(ب)		مشرقِ وسطى	(الف)	
	viii.	(a) Malaysia	famous	for nat	tural rub (b)	ber production? Brunei Darussal		c) Mal ماملک زیادہ مشہور			***
			مالى	(5)		برونائي دارالسلام	•	ماملك رياده مهور		ربری پید (الف)	.viii
	ix.	Indonesia is locate (a) Middle Ea	ed:		(b)	Central Asia	•	(c) Far]		(اه)	
	z		7. 24	(7)		(^{&} (, ,			س خطے میں واقع مشرق وسطی	**	.ix
	х.	بعير. MOSAAD" beloi	مترق ng to:	(5)		وسطِاليشيا	(ب)		مسرفٍ و ن	(الف)	
		(a) Israeal			(b)	India		c) Chin) ں ملک کی خفیہ تنظ		מאס"	v
			چين	(5)		بهمارت	، ج۲ (ب)		اسرائيل		.X
			<u>.</u>			بعارت	(ب)		المرايين	(الف)	

CHIRO PARTIE	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program	Roll No.
	R: Contemporary Muslim World Code: ISE-201 Part – II	MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50
A	TTEMPT THIS (SUBJECTIVE) ON THE SEPARATE AN	SWER SHEET PROVIDED
Q.2.	Write short answers to the following questions. جوابات دیں۔	(5x4=20) سوال نمبر2: درج ذیل سوالات کے مختصر
i.	Highlight two economic issues faced by Muslim Ummah.	r a scarca calua
ii.	Describe the objects of Motamar Al-Alam Al-Islami.	i. مسلم أمه كودر پیش كوئى ہے دومعاشى مساكل مسلم أمه كودر پیش كوئى ہے دومعاشى مساكل
iii.	Describe the current situation of Yemen.	ii. مؤتمر عالم اسلامی کے قیام کے مقاصد بیان
iv.	Highlight two impacts of sectarianism on Muslim Ummah.	iii. يمن کی موجودہ صورتِ حال پر روشنی ڈالير
v.	Through light on agricultural sources of Muslim Ummah.	iv. مسلمانوں پر فرقہ داریت کے دوانژات کا - v. عالم اسلام کے زرعی دسائل مختصر آبیان کر
Q.3.	Detailed answers are required to the following questions. لجوابات مطلوب بین۔	(3x10=30) سوال نمبر 3: درج ذیل سوالات کے تفصیل

Give comprehensive suggestions for the unity of Muslim Ummah. i.

.i

امت مسلمہ کے اتحاد کے لئے تجاویزدیں۔ Explain "Afghanistan Discord" briefly and describe the role of Pakistan. ii.

Explain Algnanistan Discord briefly and describe the role of Pakistan. مسئلہ افغانستان کا جائزہ لیتے ہوئے پاکستان کے کر دار پر روشنی ڈالیں۔ Describe the Mineral sources of Muslim world and suggest the solution of its problems. عالم اسلام سے معدنی دسائل کا جائزہ لیں۔ نیز اس شعبہ کو در پیش مسائل سے حل سے لیے تجاویز پیش کریں۔ iii. .iii

.ii

Third Semester – 2019 Examination: B.S. 4 Years Program

Roll No. in Words.

PAPER: Fiqh-I Course Code: ISE-202 Part-I (Compulsory) MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

10	-	سوال نمبر: 1 - درست جواب پرنشان لگائیں
		1-مسافرموزوں پر مسح کر سکتا ہے؟
ج) چاردن چارران	ب) تثين دن تثين راي	۱) ایک دن ایک رات
. T		2- نماز ظہر کی کل رکعتیں ہیں؟
12(2	10(<u> </u>	8(1
		3_روزے کے لغوی معنی بیں؟
ج) چکنا) تھرنا	ا)رک جانا
لفا م		4۔ جعہ کی نماز کا کیا تھم ہے؟
ج) نفلی ہے	ب)سنت ب	ا) فرض عین <i>ہے</i>
6 11 (7		5۔ صدقہ فطر کا مستحق کون ہے؟
ج) مال دار	ب)صاحب نصاب	ا) فقيرو مسكين
: 6 . 1(7		6_جح کا کون سادن ہے؟
ج) يوم عرفه	ب)يوم عاشوره	ا) يوم النحر ا
ج) زندگی میں د		7-ج فرض ہے-
(\mathbf{c}, \mathbf{c})	ب)زندگی میں ایک بار	ı) سال میں بار
3(¿		8_ قصر الصلوة كنن دن كى جاسكتى ہے؟
3(0	4(ب	5(1
ج) قرض دار		9۔غارم سے کون مراد ہے؟
	ب)مسافر	۱) مال دار
7(3		10- نماز کے ممنوع او قات بیں؟

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program	••••••••••••••••••••••••••••••••••••••
PAPER: Fic	vb_T	Roll No MAX. TIME: 2 Hrs. 45 Min.
	e: ISE-202 Part – II	MAX. MARKS: 50
ATTEN	MPT THIS (SUBJECTIVE) ON THE SEPARATE A	NSWER SHEET PROVIDED

اس پر چ مسیں شامل سوالات کے جوابات اپنی امتحانی کالی مسیں درج کریں۔

حصيرانشائيه

۲_ج وعمرہ کی تعریف بیان کریں۔

سوال نمبر ۲۰ طہارت کے معنی داہمیت ادر نجاست کی اقسام تفصیلاً بیان کریں۔

سوال نمبر مه، درج ذیل پر مخصر اور جامع نوٹ ککھیں۔

سوال نمبر ۵:صدقه فطرير تفصيلي نوٹ لکھيں۔

ا۔ شرائط نماز کتنی ہیں ؟

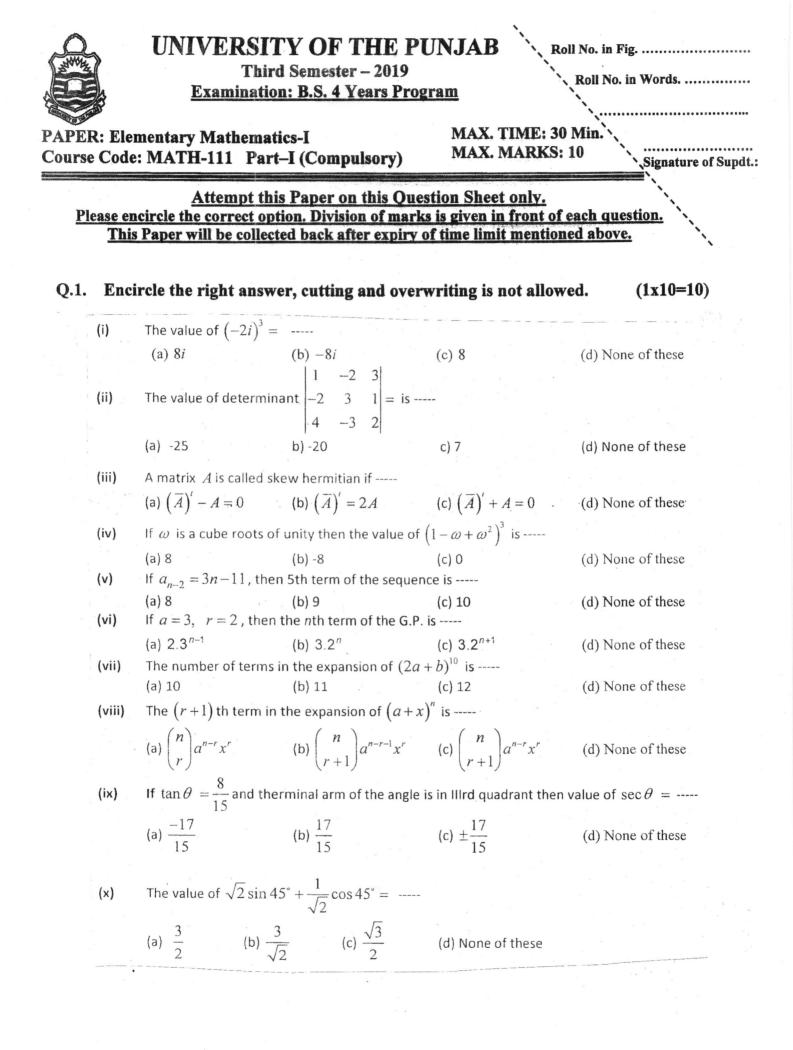
20

سوال نمبر 2: درج ذیل کے مخضر جوابات دیں۔ 1 - نجاست کی اقسام بیان کریں۔ 2۔ تیم کی تعریف ککھیں۔ سر کن او قات میں نمازیڑ ھناجائز نہیں؟ ۳۔ روزے کے تین فوائد ذکر کریں۔ ۵۔ زکوۃ کانصاب بیان کریں۔ ۲_ز کوۃ کے مصارف ذکر کریں۔ ۷۔ شیخ فانی سے کیامراد ہے؟ ۸۔اعتکاف کی شر ائط بیان کریں۔ ۹۔ جج کی اقسام بیان کریں۔ •ا۔ فرضت دضویے متعلق آیت مبار کہ بمعہ متن تحریر کیجئے۔

10+10+10=30

سي سنن وضو

UNIVERSITY OF THE PU Third Semester – 2019 <u>Examination: B.S. 4 Years Progra</u> PAPER: Islamic History-I Course Code: ISE-203 Part–I (Compulsory)	Roll No. in Words.
<u>Attempt this Paper on this Questi</u> <u>Please encircle the correct option. Division of marks i</u> <u>This Paper will be collected back after expiry of</u>	s given in front of each question.
Q.1. Fill in the blanks.	(1x10=10) سوال نمبر1: خالی جگہ پُر کریں۔
 a) consider as the founder of Motazila b) Yazid bin Muaviya reign remained for c) Basra city was established by d) Battle of Jamal was fought in e) was the last ruler of Ummyads f) Hazrat Umar (R.A) period of Caliphate remain g) Hazrat Umar Bin Abdul Aziz was Governor of h) Hazrat Usman (R.A.) was martyared in i) The period of Hazrat Abu Bakar reimained for j) Tragedy of Karbala occoured in hijri 	year. s Dynasty. hed years. before caliph. year. year.



	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program ementary Mathematics-I le: MATH-111 Part – II	Roll No MAX. TIME: 2 Hrs. 30 Min. MAX. MARKS: 50									
ATTE	ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET										
Q.2	Solve the following Short Questions: (i) Simplify and express $(5, -4) \div (-3, -8)$ in the form										
	(ii) Find the value of x, y if $\begin{bmatrix} x+3 & 1 \\ -3 & 3y-4 \end{bmatrix} = \begin{bmatrix} y \\ -3 \end{bmatrix}$	$\begin{bmatrix} 1\\2x \end{bmatrix}$									
	(iii) Evaluate $\left(\frac{-1+\sqrt{-3}}{2}\right)^3 + \left(\frac{-1-\sqrt{-3}}{2}\right)^3$										
	(iv) Show that the roots of equation $x^2 + (mx + c)^2 = a^2$	will be equal if $c^2 = a^2 (1+m^2)$.									
	(v) Find the sum of arithmetic series $-3 + (-1) + 1 + 3 + (-1) + 3 + (-1) + 3 + (-1) + 3 + (-1) + 3 + (-1) + 3 + (-1) +$	$5 + + a_{10}$.									
	(vi) Find the term involving x^5 in the expansion of $\left(\frac{3}{2}x\right)^{1/2}$	$\left(-\frac{1}{3x}\right)^{11}$									
	(vii) Find the 10th term of the H.P. $\frac{1}{3}, \frac{1}{8}, \frac{1}{13}, \dots$										
	(viii) Find r when $\theta = \frac{\pi}{7}$ radians, $l = 1$ cm										
	(ix) Find the values of trigonometric functions of the ang (x) Expand $(1-2x)^{1/3}$ up to the first four terms and use	le 1530° it to evaluate $(0.8)^{1/3}$.									
	SECTION III										
(5 ma	rks each long question) $b+c = a = a^2$	(6 × 5 = 30)									
Q.3	Show that $\begin{vmatrix} c+a & b & b^2 \\ a+b & c & c^2 \end{vmatrix} = (a+b+c)(a-b)(b-c)(c-a)$	•									
Q.4	Solve the equation $x^4 - 3x^3 + 4x^2 - 3x + 1 = 0$.										
Q.5	If the roots of $px^2 + qx + q = 0$ we α , β then prove that $\sqrt{-1}$	$\frac{\overline{\alpha}}{\overline{\beta}} + \sqrt{\frac{\overline{\beta}}{\alpha}} + \sqrt{\frac{q}{p}} = 0.$									
Q.6	Find the term independent of x in the expansion of $\left(\frac{x}{2} + \frac{x}{x}\right)$	$\left(\frac{2}{2}\right)^{12}$									
Q.7	Prove the identity $\frac{1+\cos\theta}{1-\cos\theta} = \left(\cos ec\theta + \cot\theta\right)^2.$										
Q.8	Prove that $\frac{\tan \theta + \sec \theta - 1}{\tan \theta - \sec \theta + 1} = \tan \theta + \sec \theta.$										

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Mathematics A-III

Course Code: MATH-201/MTH-21309 Part-I(Compulsory) M

MAX. TIME: 30 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1.	Encircle the	right a	nswer, c	utting and	overwritin	g is not allowed.	(1x10=10)
					5 18. ⁻		

	If $(\overline{A})' = -A$ then A is called											
(i)	(a) Symmetric matrix(b) Skew symmetric matrix(c) Hermitian matrix(d) Skew											
	If W is a linear subspace of V then											
(ii)	(a) $\dim(W) \le \dim(V)$ (b) $\dim(W) \ge \dim(V)$ (c) $\dim(W) = \dim(V)$ (d) None of these											
(iii)	A set of linear equations is represented by the matrix equation $Ax = b$. The necessary condition for the existence of a solution for this system is (a) A must be invertible (b) b must be linearly depended on the columns of A (c) b must be											
	linearly independent on the columns of A (d) none of these											
	A unit vector orthogonal to both $(1, 1, 2)$ and $(0, 1, 3)$ in \mathbb{R}^3 is											
(iv)	(a) $\left(\frac{1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$ (b) $\left(\frac{-1}{\sqrt{11}}, \frac{3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$ (c) $\left(\frac{2}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{-1}{\sqrt{11}}\right)$ (d) $\left(\frac{-1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$											
(v)	The characteristic polynomial of the matrix $\begin{pmatrix} 2 & 0 \\ 0 & 0 \end{pmatrix}$ is											
2	(a) $\dim(W) = \dim(V)$ (b) $p(\lambda) = (2 - \lambda)(3 - \lambda)$ (c) $p(\lambda) = 0$ (d) None of these											
(vi)	The property $\forall a, b \in \mathbb{R}$ then $a + b = b + a = b \in \mathbb{R}$ then a is called(a) Identity(b) Inverse(c) Conjugate(d) None of these											
(vii)	The subspace of R^3 spanned by the vector (a, b, c) is (a) $x = t, y = bt, z = ct$ (b) $x = -at, y = -bt, z = -ct$ (c) $x = at, y = bt, z = ct$ (d) None of these											
(viii)	Let R^3 be the vector space of all ordered triples of real numbers. Then the transformation $T: R^3 \rightarrow R^3$ defined by $T(x,y,z)=(x,y,z)$ is (a) Identity (b) Not Linear (c) Rational (d) None of these											
(ix)	A linear transformation T that is both one-one and onto is has Ker(T)(a) 0(b) 1(c) 2(d) None of these											
	(a) 0 (b) 1 (c) 2 (d) None of these											
(x)	Let V be vector space of finite dimension n. Then any n+1 or more vectors in V is (a) linearly dependent (b) linearly independent (c) both (a) and (b) (d) none of these.											

	WINIVERSITY OF THE PUNJAB Third Semester - 2019 Examination: B.S. 4 Years Program Roll No. APER: Mathematics A-III Durse Code: MATH-201/MTH-21309 Part – II										
4	ATTE	MPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROV	VIDED								
	Q.2.	Questions with Short Answers. (5x	4=20)								
	Decide yes or no about the following statement, if no justify by counter example										
	(i)	If A is 2 × 2 matrix such that $A^2 = 0$ Then A must be a null matrix-									
	(ii)	$\vec{u}_1 = (1, -3, 2), \ \vec{u}_2 = (2, -4 - 1), \ \vec{u}_3 = (1, -5, 7).$ Check whether <i>W</i> is a subspace of <i>V</i> or not.									
	(iii)										
	(iv)	$det \begin{bmatrix} 1 & a & 1 & 1 \\ 1 & 1 & a & 1 \\ 1 & 1 & 1 & a \end{bmatrix} = (a - 1)^3 (a + 3)$ If <i>A</i> and <i>B</i> are invertible matrices of same order and <i>AB</i> is invertible then									
	(v)										

P.T.O.

	LONG QUESTIONS (5x6=30)	
Q.3	Solve the following system of linear equations by using an appropriate method. $x_1 - 2x_2 + 3x_3 = 3$ $2x_1 + x_2 - x_3 = 9$ $-3x_1 - 4x_2 + 5x_3 = -15.$	(6)
Q.4	Define $T: \mathbb{R}^3 \to \mathbb{R}^3$ by $T(x_1, x_2, x_3) = (-x_3, x_1, x_1 + x_3)$. Find $N(T)$. Is T one-to-one?	(6)
Q.5	If $A = \begin{bmatrix} 1 & 2 & 1 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ determine the value of $A^2 - 4A - 5I$.	(6)
Q.6	Find the real orthogonal matrix P for which $P^{-1}AP$ is orthogonal where $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$	(6)
Q.7	Express matrix <i>M</i> as a linear combination of the matrices <i>A</i> , <i>B</i> and <i>C</i> where $M = \begin{bmatrix} 4 & 7 \\ 7 & 9 \end{bmatrix}, \ A = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}, \ B = \begin{bmatrix} 1 & 2 \\ 3 & -4 \end{bmatrix}, \ C = \begin{bmatrix} 1 & 1 \\ 4 & 5 \end{bmatrix}.$	(6)

	Third Semester – 2019 <u>Examination: B.S. 4 Years Program</u> (Clash) athematics A-III le: MATH-201/MTH-21309 Part-I(Compulsory) MAX. MARKS: 10 Signature of Su
<u>Th</u>	Attempt this Paper on this Question Sheet only. Encircle the correct option. Division of marks is given in front of each question. is Paper will be collected back after expiry of time limit mentioned above. circle the right answer, cutting and overwriting is not allowed. (1x10=10)
(1)	circle the right answer, cutting and overwriting is not allowed. (1x10=10)Rank of A is Rank of A^T (a) equal(b) greater than(c) less than(d) None of these
(ii)	If A and B are symmetric matrices. Then AB is also (a) symmetric (b) skew-symmetric (c) Hermitian (d) None of these
(iii)	If A is a matrix of order 3×3 and $det(A) = -1$, then the value of $det(2A)$ is (a) -8 (b) -6 (c) 8 (d) 18
(iv)	The dimension of KerT is called
(v)	The characteristic polynomial of the matrix $\begin{pmatrix} 5 & 0 \\ 0 & 1 \end{pmatrix}$ is (a) $p(\lambda) = (1-\lambda)^2$ (b) $p(\lambda) = (5-\lambda)(1-\lambda)$ (c) $p(\lambda) = 0$ (d) None of these
(vi)	If $(\overline{A})^{t} = -A$ then A is calledmatrix (a) Symmetric (b) Skew symmetric (c) Hermitian (d) Skew Hermitian
(vii)	The property $\forall a, b \in \mathbb{R}$ then $(a+b) = (b+a)$ is called (a) Closure property (b) Transitive property (c) Commutative property (d) Associative property
(viii)	A linear transformation $T: U \to V$ is one-to-one if and only if (a) $N(T) = \{0\}$ (b) $N(T) \neq \{0\}$ (c) $N(T) = \{1\}$ (d) $N(T) = \{-1\}$
(ix)	Let R^3 be the vector space of all ordered triples of real numbers. Then the transformation $T: R^3 \rightarrow R^3$ defined by $T(x, y, z) = (x, y, 0)$ is (a) Linear (b) Not Linear (c) Rational (d) None of these
(x)	A symmetric matrix of order n has eigen values.(a) $n-1$ (b) $n+1$ (c) n(d) 0

Third Semester - 2019

Examination: B.S. 4 Years Program

(Clash)

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PAPER: Mathematics A-III Course Code: MATH-201/MTH-21309 Part – II

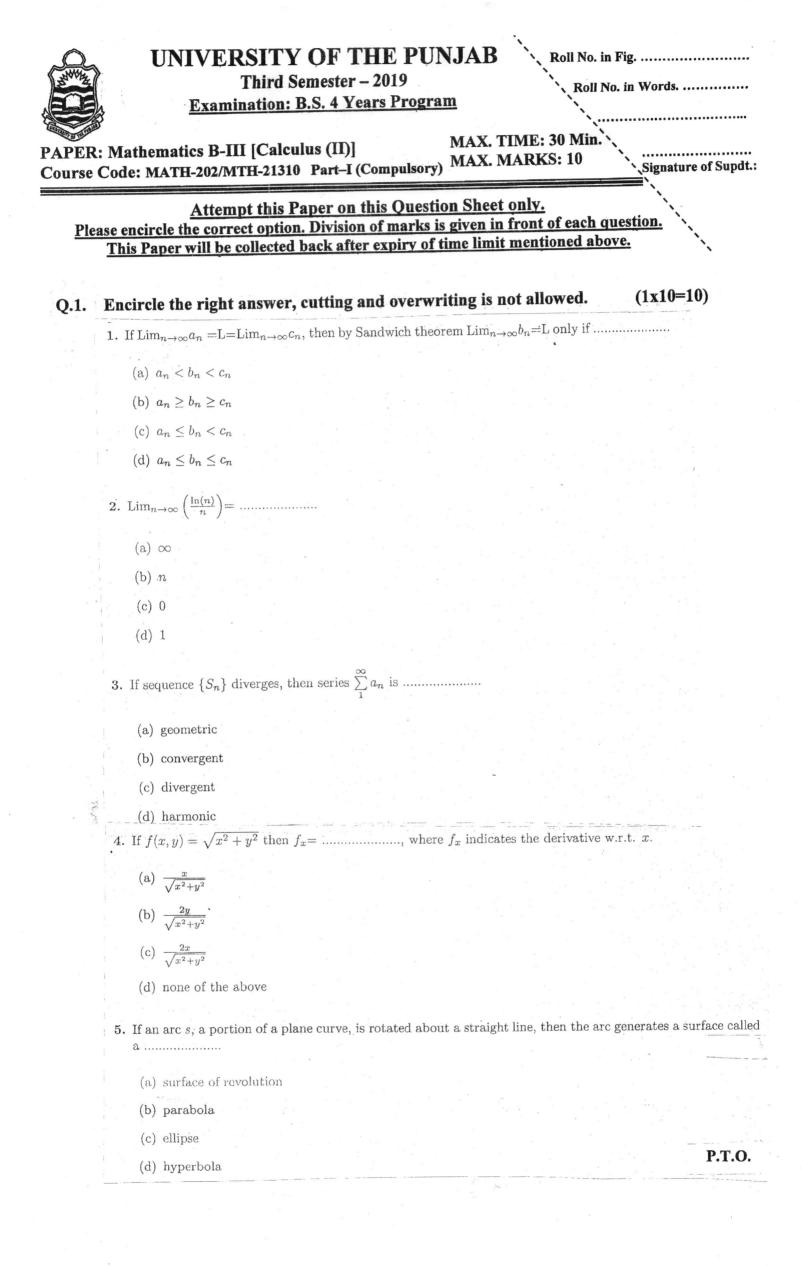
MAX. TIME: 2 Hrs. 30 Mi MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. 2	SHORT QUESTIONS	
(i)	Show that the functions $f(t) = \cos t$, $g(t) = \sin t$, $h(t) = t$ from R to R are linearly independent.	(4)
(ii)	Without evaluating, verify that $\begin{bmatrix} b + c & b & c \end{bmatrix}$	(4)
	$det\begin{bmatrix} b+c & b & c\\ c & c+a & a\\ b & a & a+b \end{bmatrix} = 2a(b^2 + c^2).$	
(iii)	Show that the matrix $\begin{bmatrix} 0 & 1 & -1 \\ 4 & -3 & 4 \\ 3 & -3 & 4 \end{bmatrix}$ is involutery.	(4)
(iv)	Check whether W is a subspace of V or not. $V = R^2$ and W is the set of first quadrant vectors of R^2 .	(4)
(v)	For the given matrix find the basis of Column space. $ \begin{bmatrix} 1 & 2 & 2 & -1 \\ 3 & 6 & 5 & 0 \\ 1 & 2 & 1 & 0 \end{bmatrix} $	(4)

P.T.O.

	LONG QUESTIONS	
Q.3	Solve the system of linear equations by Gaussian elimination method x + y + 2z = 9, $2x + 4y - 3z = 1$, $3x + 6y - 5z = 0$	(6)
Q.4	If possible, find the inverse of the matrix $\begin{bmatrix} 1 & 2 & -3 \\ 0 & -2 & 0 \\ -2 & -2 & 2 \end{bmatrix}$	(6)
Q.5	For a real number k, consider the following system. For what value k does the system have a solution. $x_1+x_2+kx_3+x_4 = k$ $-x_2+x_3+2x_4 = 0$ $x_1+2x_2+x_3-x_4 = -k.$	(6)
Q.6	Determine whether the vectors are linearly independent or not? $v_1 = (1, -2, 3), v_2 = (5, 6, -1), v_3 = (3, 2, 1).$	(6)
Q.7	If possible find a matrix P that diagonalize the following matrix. $A = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix}$	(6)



	UNIVERSITY OF THE PUNJAB Third Semester – 2019 <u>Examination: B.S. 4 Years Program</u>	Roll No.
PAPER: M	athematics B-III [Calculus (II)]	MAX. TIME: 2 Hrs. 30 Min.
Course Coo	le: MATH-202/MTH-21310 Part – II	MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2	2. Questions with short answers.	
		(2 marks)
	. Define triple integral with an example.	(2 marks)
	2. Define Alternating series test and give an example. 3. Find equation of tangent plane at any point $P(x_1, y_1, z_1)$ of elliptic parabola $z = x^2 + 4y^2$.	(2 marks)
	3. Find equation of tangent plane us any point $r = (x, y) = 2x^2 - 4x + xy^2 - 1.$ 4. Work out the critical points of $f(x, y) = 2x^2 - 4x + xy^2 - 1.$	(2 marks)
	 Investigate the behavior of the series 	(4 marks)
•	$\sum_{n=1}^{\infty} a_n = \sum_{n=1}^{\infty} \frac{(n!)^2}{(n^2)!}.$	
		(4 marks)
	6. Use double integral to find the area enclosed by cardioid $r = a(1 - \cos \theta)$.	
	7. If $z = \frac{\cos y}{x}$, $x = u^2 - v$, $y = e^v$, then find $\frac{\partial z}{\partial u}$.	(4 marks)

Q.3. Questions with brief answers.

	1.	Test the following series for convergence or divergence	(5 marks)
	ţ	$\sum_{1}^{\infty} \frac{n^{p-1}}{n^p+1}.$	
	2.	Find the extrema of $f(x, y, z) = xy + z$ subject to $x^2 + y^2 + z^2 = 1$.	(5 marks)
*	3.	. If $U = f(x, y)$ is homogeneous function of degree <i>n</i> then prove that	(5 marks)
	4	$x^2 f_{xx} + 2xy f_{xy} + y^2 f_{yy} = n(n-1)f.$. Using the power series expansion of $\ln(1+x)$ and $\left(\frac{1}{1+x^2}\right)$, find power series of $\frac{\ln(1+x)}{1+x^2}$.	(7 marks)
		. Evaluate $I = \int_{-1}^{1} \int_{-\sqrt{1-x^2}}^{\sqrt{1-x^2}} \int_{x^2+y^2}^{1} z(x^2+y^2)dzdydx$ by changing to cylindrical coordinates.	(8 marks)

Examination: B.S. 4 Years Program

Third Semester - 2019

Roll No. in Fig.

Roll No. in Words.

PAPER: Graph Theory

MAX. TIME: 30 Min.

Course Code: MATH-205/MTH-21312 Part-I (Compulsory) MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. MCQ

 $(1 \times 10 = 10)$

- i) A simple connected graph containing no cycle is
 a) forest (b) bipartite (c) tree (d) regular
- ii) A closed walk in which no vertex is repeated except initial and final vertex is called (a) Trail (b) path (c) cycle (d) none
- iii) A complete bipartite graph $K_{n,m}$ contains dedges (a) n+m (b) nm (c) $\max(n,m)$ (d) n-m
 - iv) For a graph G with n vertices and m edges, the graph G|e (where e is an edge) contains vertices (a) n (b) n-1 (c) n+1 (d) n+2
 - v) If degree of every vertex of a graph G is same then G is called (a) complete (b) regular (c) connected (d) none
 - vi) If vertex set of a subgraph is equal to vertex set of graph then subgraph is called
 (a) spanning subgraph
 (b) vertex-induced subgraph
 (c) edge-induced
 subgraph
- viii) The number of edges of C_n is (a) n-1 (b) n (c) n+1 (d) none
- ix) A cycle that traverse every vertex of graph is called _____ cycle.
 (a) eulerian (b) semi-eulerian (C) closed (D) Hamiltonian
- x) A tree must contain vertex (a)pendant (b) isolated (c) degree two (d) none



Third Semester - 2019

Examination: B.S. 4 Years Program

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Roll No.	
MAX. TIME: 2 Hrs. 30 Min	
MAX. MARKS: 50	

PAPER: Graph Theory

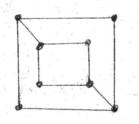
Course Code: MATH-205/MTH-21312 Part – II

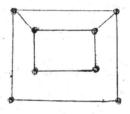
ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q#2: Solve the following Short Questions.

(2×10=20)

- i) For which values of n, K_n are Hamiltonion and Eulerian?
- ii) Define Complete bipartite graphs and give example.
- iii) Define vertex connectivity $\kappa(G)$ and give example of graph with $\kappa(G)=2$.
- iv) Draw a non-simple graph with no multiple edges with five vertices and eight edges.
- v) Write incidence matrix of K_4 .
- vi) What is difference between cubic graphs and cubes?
- vii) Prove that every tree is bipartite.
- viii) Which complete bipartite graphs are eulerian?
- ix) Find the cycle and cutset rank of Petersen graph.
- x) Determine whether the following graphs are isomorphic or not?

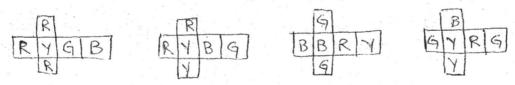




Q# 3: Solve the following Long Questions.

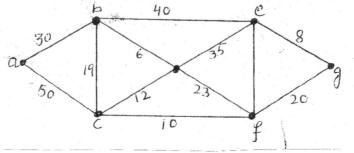
(5×6=30)

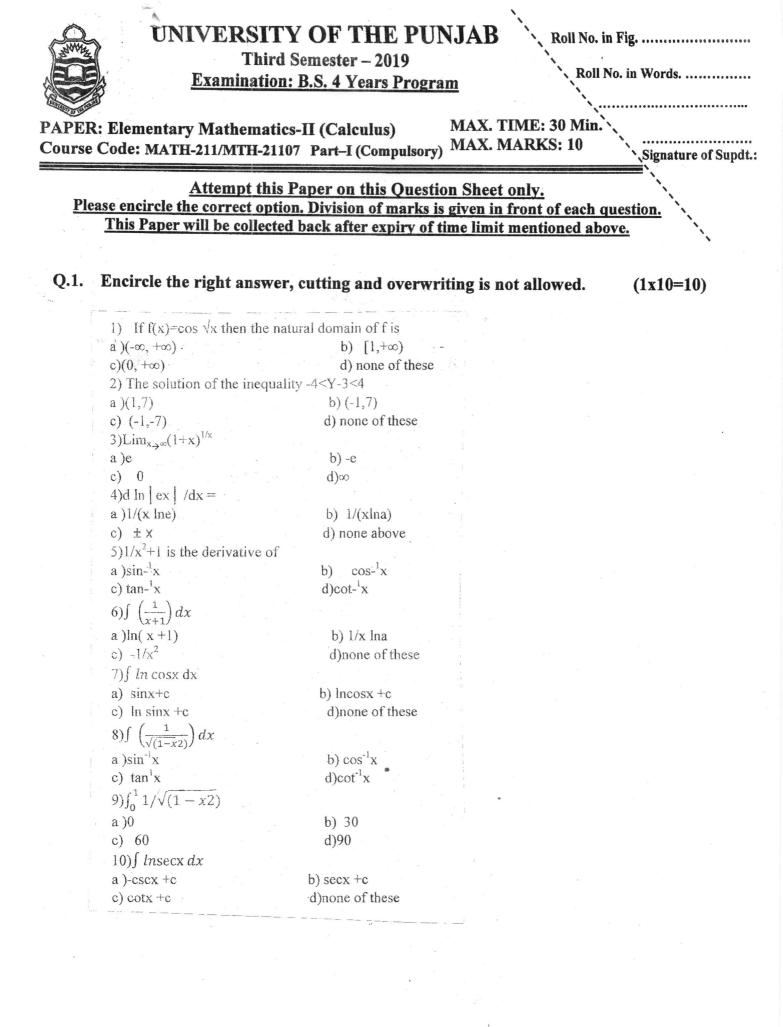
- i) Define spanning tree and draw all spanning trees of wheel graph W_4 .
- ii) Prove that a simple graph and its complement cannot both be disconnected.
- iii) Is it possible to draw a simple graph on six vertices with degree sequence $\{3,3,5,5,5,5\}$ or not? Justify your answer.
- iv) Find the solution of four cubes given as



v)

Find the shortest path between vertices a and b in the following graph.





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UNIVERSITY OF THE PUNJAB Third Semester - 2019

Examination: B.S. 4 Years Program

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MAX.	TIME:	2 Hrs	. 30	Min.
MAX.	MARK	S: 50		

PAPER: Elementary Mathematics-II (Calculus) Course Code: MATH-211/MTH-21107 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2: write the answers of the follo	owing questions $(5 \times 4 = 20 \text{ Marks})$
i) Define continuity and Solve $4+7x \le 2$	2x-10
ii) Evaluate $\lim_{x\to 0} \frac{\ln (tanx)^2}{\ln x}$	
iii)Find dy/dx if y=a ^x	
iv)Evaluate $\int x e^x dx$	
v) Evaluate $\int_2^1 \frac{dx}{(2-x)^{\frac{1}{3}}}$	
	Long Questions (3x10=30)
Q3	
a)Solve $\frac{2x-5}{x-2} < 1$	b)Discuss the continuity of function $f(x)=x \sin(1/x)$ at $x=0$
Q4	
Differentiate w.r.t x	
a) $\sin\left(\sqrt{(1+\cos x)}\right)$	b) $y=x \ln x \cos^2 \pi x$
Q5	
Evaluate	
a) $\int \frac{\sin\sqrt{x}}{\sqrt{x}} dx$	$b)\int_0^2 \frac{x}{\sqrt{1+x^3}} dx$



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ALLEA	Examination: B.S. 4 Years Program	Roll No.
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		MAX, TIME: 2 Hrs. 30 Min.

PAPER: Differential Equations-I Course Code: MATH-221/MTH-21334 Part – II

MAX. TIME: 2 Hrs. 30 Mir MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

y(4) = -3.

y(3) = 5.

y(1) = 10.

 $\frac{dy}{dx} = -\frac{x}{y},$

 $\frac{dy}{dx} = e^{-x^2},$

 $(x+1)\frac{dy}{dx} + y = \ln x,$

Q.2. Give short answers of following:

1. Solve the initial-value problem

2. Solve

3. Solve

Solve

4. Solve

5. Solve

Q.3. Give detailed answers:

1. Solve the differential equation by using undetermined coefficients

$$rac{d^2 y(x)}{dx^2} + 25y(x) = 6\sin(x)$$
 .

 $x\frac{dy}{dx} - 4y = x^6 e^x.$

 $x^{3}\frac{d^{3}y}{dx^{3}} + 5x^{2}\frac{d^{2}y}{dx^{2}} + 7x\frac{dy}{dx} + 8y = 0.$

2. Solve the given differential equation

$$\frac{dy}{dx} = 1 + e^{y - x + \frac{1}{2}}$$

3. Solve

$$\frac{3y^2 - t^2}{y^5}\frac{dy}{dt} + \frac{t}{2y^4} = 0, \qquad \qquad y(1) = 1.$$

4. Solve the system of linear differential equations

$$(D^2 + 5) x(t) - 2y(t) = 0 -2x(t) + (D^2 + 2) y(t) = 0$$

where $D = \frac{d}{dt}$, $D^2 = \frac{d^2}{dt^2}$.

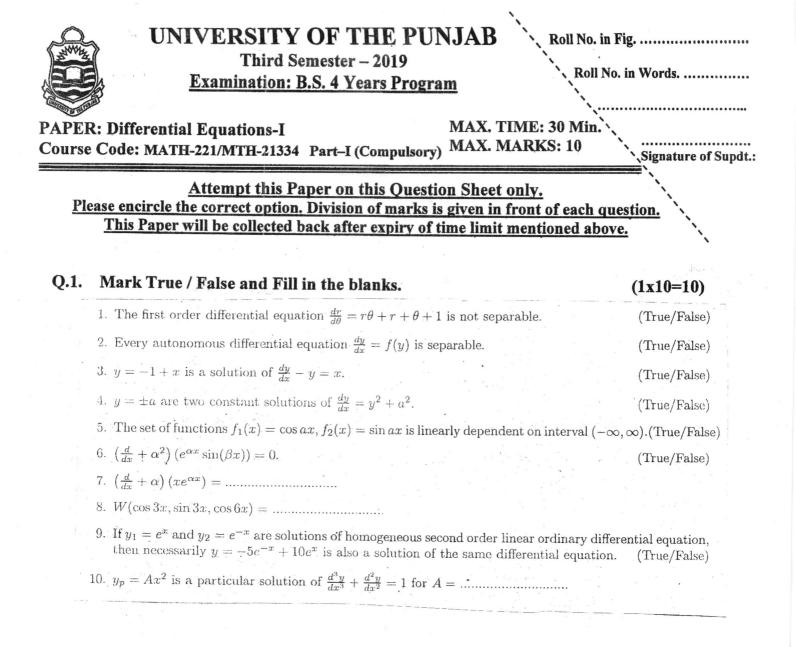
5. Solve

$$x^{2}\frac{d^{2}y}{dx^{2}} + x\frac{dy}{dx}\left(x^{2} - \frac{1}{4}\right)y = x^{3/2},$$

by using variation of parameters (Note: The linearly independent solutions of the associated homogeneous differential equations are $y_1(x) = x^{-1/2} \cos x$, $y_2(x) = x^{-1/2} \sin x$).

 $(5 \ge 4 = 20)$

 $(5 \times 6 = 30)$



	ure Mathematics MAX. TIME: 30 Min. de: MATH-222/MTH-21119 Part-I (Compulsory) MAX. MARKS: 10 Signature of S
Please <u>T</u> ł	Attempt this Paper on this Question Sheet only. encircle the correct option. Division of marks is given in front of each question. his Paper will be collected back after expiry of time limit mentioned above.
	circle the right answer, cutting and overwriting is not allowed. (1x10=10)
i)	$A \cap A^c =$
	a) A b) A^c c) ϕ d) 0
ii)	A set consists of those elements which belong to A or B but not to both is denoted by
*	a) $A \oplus B$ b) $A \cap B$ c) $A \cup B$ d) A/B
iii)	A subset of a metric space is said to be closed if it contains all of its
	a) Unions b) Intersections c) products d) limit points
:s ⁻)	A function $f: N \to N$ defined by $f(n) = 2n$ is
	a) one-to-one b) onto c) neither 1-1 nor onto d) none of these
v)	Which of the following is proposition?
	a) Do not smoke b) Lahore is capital of Punjab c) $x + y = z$ d) walk along the road
vi)	The A.M between $3\sqrt{5}$ and $5\sqrt{5}$ is
	a) $\sqrt{5}$ b) $2\sqrt{5}$ c) $3\sqrt{5}$ d) $4\sqrt{5}$
vii)	The converse of $p \rightarrow q$ is
	a) $q \rightarrow p$ b) $\sim p \rightarrow \sim q$ c) $\sim q \rightarrow \sim p$ d) $p \leftrightarrow q$
viii)	The 13 th term of the sequence $x, 1, 2 - x,$ is
	a) $10 - 9x$ b) $11 - 10x$ c) $12 - 11x$
ix)	For two sets A and B, $A - B =$
	a) $A \cup B^c$ b) $A^c \cup B$ c) $A \cap B^c$ d) $A^c \cap B$
x)	If $Q(x, y)$: $y = x^2 + 2$, then which is true
	a) $Q(1,2)$ b) $Q(2,1)$ c) $Q(1,3)$ d) $Q(3,1)$

UNIVERSITY OF THE PUNJAB Third Semester - 2019 Examination: B.S. 4 Years Program Roll No. **PAPER:** Pure Mathematics

MAX. TIME: 2 Hrs. 30 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Part – II

Answer the following short questions. Q.2.

Course Code: MATH-222/MTH-21119

 $(10 \ge 2 = 20)$

- Find the unit open ball in R^2 . i.
- If A and B are subsets of a universal set U, then show that $A \subseteq B$ iff $B^c \subseteq A^c$. ii. iii.
- Determine whether the function $f(x) = 7 3x^2$ is bijective from R to R. iv.
- Find the closures of Q and Q^c in R, V. .
- Define absurdity with suitable example. vi.
- Find $g \circ f$, where $f(x) = x^2 + 1$ and g(x) = x 1. vii.

Find the first three terms of a sequence if $a_n - a_{n-1} = n + 1$ and $a_4 = 14$.

List the ordered pairs in the relation on $\{1,2,3\}$ corresponding to the matrix $0 \le 1$ VIII. 0 17 0.

- Find the domain and sketch the function $f(x) = \frac{x-1}{x^2}$. ix.
- Which term of A.P. 5, 2, -1, ... is -85? Х.

Answer the following long questions.

$(5 \times 6 = 30)$

0

11

- Illustrate the distributive law $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ with Venn diagrams. Q. 3 [6]
- Prove that $n(A \cup B) = n(A) + n(B) n(A \cap B)$, when A, B, $A \cup B$ and $A \cap B$ are finite Q.4 [6]

Show that the function $d: R \times R \to R$ defined by $d(x, y) = \sqrt{|x - y|}, \forall x, y \in R$ is a Q. 5 metric on R. [6]

Determine the validity of the argument: $p \rightarrow \sim q, r \rightarrow q, r \vdash \sim p$. Q. 6 [6]

Q. 7 Show that
$$1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$$
 for all positive integers *n*. [6]



Roll No. in Fig.

Roll No. in Words.

Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Discrete Mathematics (IT) N Course Code: MATH-231/IT-21404 Part-I (Compulsory) N

MAX. TIME: 30 Min. MAX. MARKS: 10

Signature of Supdt.:

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<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

. I	ucircle th	ie right answ	er, cutting a	and overwriting is a	tot allowed. (1x10
1	. The neg	ation of the co	nditional state	ement $p \rightarrow q$ is	
2	a. $\neg p \rightarrow$	q b. $p \land \neg q$	c. $q \rightarrow p$	d. $\neg q \rightarrow \neg p$ ements in P (A) = d. 2 ⁷	
3	Conside Symmet	r the relation { ric b. I	(1,3), (1,4), (2 Reflexive	,3), (2,4), (3,1), (3,4)}o c. Transitive	on set A={1,2,3,4} is a a. d. Irreflexive
	4, 12, 36, 10		owing geometr	ric sequence	
	a. 8748 1,10,10	b. 8768 ² , 10 ³ , 10 ⁴ , 10 ⁵	c. 12 ,is	d. 8766	
a	. Arithme d. Geon	etic series netric sequence	b. Geome	tric series c	Arithmetic sequence
1	The total four elem		e-to-one funct	ions, from a set with	hree elements to a set with
7.		b. 1 $x+1$ then its in	nverse =	·····	9
a	x - 1	b. $\frac{x-1}{2}$	c. 1+ <i>x</i>	d. None of these	
8.	Compute	the summation	$\sum^{3} (2i-1)$		
	8	b. 3	c. 9	d. 10	
.9.	The numb "BENZEN	er of distinct pe VE" is	ermutations the	at can be formed using	the letters of the word
a.	120	b. 420	c. 240	d. None of the ab	ove
10.	Which ter	m of the seque	nce 4,1,-2, i	s -77	
a.	26	b. 27	c. 28	d. None of these	



Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Discrete Mathematics (IT) Course Code: MATH-231/IT-21404 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Solve the following short questions.

- $(10 \times 2 = 20)$
- 1. How many integers from 1 through 1000 are multiples of 3 or multiples of 5?
- 2. Use truth table to show that $(p \land \neg q) \land (\neg p \lor q)$ is a contradiction.
- 3. For all subsets A and B of a universal set U, prove that $(A B) \cup (A \cap B) = A$
- 4. Suppose R and S are binary relations on a set A. If R and S are reflexive, is R ∩ S reflexive?
- 5. Define symmetric relation.
- 6. How many functions are there from a set with three elements to a set with four elements?
- 7. Define $g: Z \to Z$ by the rule $g(n) = n^2$ for all $n \in Z$ Is g one-to-one? Prove or give a counter example.
- 8. How many 2-permutation are there of $\{W, X, Y, Z\}$? Write them all.
- 9. Define Recursion.
- 10. Draw the graph of the binary relation C from R to R defined as follows: for all $(x, y) \in \mathbb{R} \times \mathbb{R}$, $(x, y) \in \mathbb{C} \Leftrightarrow x^2 + y^2 = 1$.

Q.3. Solve the following long questions.

$(5 \times 6 = 30)$

- Define a relation R on the set of all integers Z as follows: for all integers m and n, m R n ⇔ m ≡ n (mod 3) Prove that R is an equivalence relation.
- 2. State and prove the DeMorgan's Law.
- 3. Prove that if *n* is an odd integer, then $n^3 + n$ is even.
- 4. Use mathematical induction to prove that $1+3+5+...+(2n-1) = n^2$ for all integers $n \ge 1$.
- 5. Let $f: R \rightarrow R$ and $g: R \rightarrow R$ be defined by

$$f(x) = 3x + 2$$
 for all $x \in \mathbb{R}$ and $g(x) = \frac{x-2}{2}$ for all $x \in \mathbb{R}$

Show that f and g are inverse of each other.

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Introduction to Philosophy Course Code: PHIL-211/PHL-21123 Part – II

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 ANSWER IN SHORT.

(02X10=20)

- 1. Write any two implausible aspects of Kantian's ethics?
- 2. Write an example showing the notion of positive freedom?
- 3. What is the difference between categorical duty and hypothetical duty?
- 4. What is artefact?
- 5. What is meant by representative Democracy.
- 6. Name the famous article of Isaiah Berlin.
- 7. What is meant by intentional fallacy.
- 8. Which theory of art distinguishes art from craft.
- 9. Why some theorists influenced by Karl Marx regard democracy as an illusion?
- 10. What is meant by 'Hedonism'.

Q.3 ANSWER IN DETAIL.

(03x10=30)

- 1. Elaborate the proofs about the existence of God.
- 2. Critically explain the theories of punishment.
- 3. Critically explicate the representative realism.

		RSITY OF TH Third Semester – 2 ination: B.S. 4 Year	019	``.	ig
	Introduction to P Code: PHIL-211/PE	hilosophy IL-21123 Part–I (Cor		IE: 15 Min. RKS: 10	
Plea	<u>Attem</u> se encircle the corre	pt this Paper on this ect option. Division of collected back after ex	s Question Sheet on marks is given in fro	ont of each que	Signature of Supdt.:
Q.1. 1	Encircle the right	answer, cutting and	overwriting is not	allowed.	(1x10=10)
1	. The gambler's ar	gument is propounded	by":		
	1. William Paley	2. St. Anslem	3. Aristotle	4. Blaise P	ascal
2	. Who introduced '	Felicific Calculus' for	calculating the degree	1.1	
	1. Jeremy Bentham		3. Immanuel Kant	4.G.E.Moor	re
3	. Which theory stat cause physical on	es that physical events			
	1. Interaction	2. Parallelism	3. Ocassionalism	4. Epiphenor	nenalism
4.	Which theory state of God:	es that link between m	ind and body is provid		
	1. Interaction	2. Parallelism	3. Ocassionalism	4. Epiphenon	nenalism
5.	Which one is not a	meta-ethical theory:			
	1. Hedonism	2. Emotivism	3. Naturalism	4. Moral rel	ativism
6.	The 'Chinese room	experiment' is a thou	ght experiment peculi		
	1. Thomas Kuhn	2. N.R. Hanson	3. John Searle	4. Bertrand F	Pussell
7.	Who used the meta work is made publi	phorical term, "death o c, its author has no pre	of the author"to explai evilege to interpret it.		
	1. William Wimsatt	2. Monroe Beardsley		ein 4. Roland	Barthes
8.	Egalitarian doctrine	that holds, "all people		200	
×	1. Moral doctrine		 3. Economical doctrin 	*	
9.	Who introduced the	concept of 'Grue'in o			ction:
	1. Thomas Kuhn	2. John Searle	3. N.R. Hanson	4. Nelson Go	
10.	Which theory of art	holds that the genuine		ysical:	Julian
	1. Signifacant-form th				of any theory

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Introduction to Philosophy (Rev) Course Code: PHIL-211-A /PHL-21123 Part – II

MAX. TIME: 2 Hrs. 45 M MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 ANSWER IN SHORT.

- 1. What is the etymology of word 'Philosophy'?
- 2. What is meant by embedded beliefs?
- 3. Define metaphysics.
- 4. What is meant by a priori knowledge?
- 5. What is the Ockham's razor?
- 6. Define inductive reasoning.
- 7. Differentiate between hypothetical and categorical moral duties?
- 8. What is the notion of moral relativism?

9. Why some Marxists have regarded 'Democracy', an illusion?

10. What is the concept of artefact?

Q.3 ANSWER IN DETAIL.

1. Describe the epistemological school of Empiricism.

- 2. Write down the moral theme of utilitarianism.
- 3. Write concise note on:
 - Negative Freedom
 - Criticism on the Ideal theory of art

(منتفر جواب للحين-) (10 × 02 = 20)

لفظ "فلسفه" كامادة اشتقاق كياب؟

سرایتی عقیدے سے کیامراد ہے؟

مابعد الطبيعيات كي تعريف للحيس-

ماقبل تجربى علم ہے کیام ادہے؟

آكم ريزركيا ب؟

استقرابی استدلال کی تعریف تکھیں۔

مشر وط ادر غیر مشر وط اخلاتی فرائض کے مابین فرق أجاگر کریں۔

اخلاقی اضافیت کا کیاتصور ہے؟

بعض مار کسی حضرات نے 'جمہوریت' کوایک دھو کہ کیوں خیال کیا ہے؟

صاعی نمونه کا نظریہ کیاہے؟

(مفصل جواب للمعين -) (مفصل جواب للمعين -)

تجربیت کے علمیاتی مکتب فکر کو بیان کریں۔

افادیت پیندی کے اخلاقی نقطہ ختیال کواحاطہ تحریر میں لائمیں۔

جامع ترين نوٺ لکھيں:

• سلبي آزادي

• آرٹ کے مثالی نظریہ پر تنقید



	ntroduction to Philosophy (Rev) le: PHIL-211-A /PHL-21123 Part-I (Compulsory) MAX. MARKS: 10
Please T	Attempt this Paper on this Question Sheet only. encircle the correct option. Division of marks is given in front of each question. his Paper will be collected back after expiry of time limit mentioned above.
Q.1. Er	ncircle the right answer, cutting and overwriting is not allowed. (1x10=10) • $c(nrrrrrre; rel) b c(nrrrre; rel) b c(nrrrrre; rel) b c(nrrrre; rel) b c(nrrre; rel) b c(nrre; rel) b c(nre;
	 ورست جواب کولتان زور ۲) تریند که تایا ترکتان زو تایا یا جواب علط شور او تاید. In ancient Greece, 'The Academy' was the 1st education institution of: تد یم یونان میں ، پیهل تعلیمی ادارہ 'اکیڈ کی 'کس کا تھا: a. Zeno (نیز) b. Socrates (ستر اط) d. Aristotle (ارسطور)
	2. Who does not belong to existentialism:
	a. Soren Kierkegaard (مورن کرتریگارڈ) c. Martin Heidegger (مارٹن ہائیڈیگر) (مارٹن ہائیڈیگر) b. Jean Paul Sartre (قال پال سارتر) d. Ludwig Wittgenstein
· · · · ·	 3. For Kant, a moral action must be performed with: کانٹ کے نزدیک، ایک اخلاتی فعل کواداکرنے کے لئے بہت ضروری ہے: a. deep feelings (شدیت جذبات) c. sense of duty (احمال فرض) b: desiring popularity (خواہش شہرت) d. reward from Almighty (اجربانی)
	 4. "Anarchy, State and Utopia" is the treatise of: "انارکی، اسٹیٹ اور یوٹو بیا" میں کی تصنیف ہے: a. Lohn Staurt Mill (جان اسٹورٹ یل) b. Jeremy Bentham (جیری سینتم) d. Robert Nozick (رابرٹ نوزک)
	 5. Which one is a meta-ethical theory: a. Kantian Ethics (کانٹین اخلاقات) b. Utilitarianism((افلات)) (افلاق)) (افلات)) (افلات)) (افلات)) (افلات)) (افلات)) (افلات)) (افلات))
	 6. "All people are equal and deserve equal rights." This Egalitarians doctrine is: "تمام لوگ برابر میں اور سادی حقوق کے مزاوار میں " ساوات پندون کا یہ اصول ہے: a. moral doctrine (اخلاقی اصول) b. religious doctrine (ندیجی اصول) d. economical doctrine (معاشی اصول)
	 7. Isaiah Berlin wrote: a. Art (آرن ن رقم کیا: b. Principles of Art (آرٹ کے اصول) c. Two Concepts of Liberty (آردن کے اصول) d. On Liberty (آزادی کے بارے میں)

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program
	R: Concepts of Modern Physics Code: PHY-201/21330 Part-I (Compulsory) MAX. MARKS: 10 Signature of Supdt.
Ple	Attempt this Paper on this Question Sheet only. ase encircle the correct option. 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. (1x10=10)
A)	The maximum kinetic energy of photo electrons depends upon
	i) Intensity ii) Frequency (iii) Temperature iv) All these
B)	The spectrum of black body radiation is
	i) Line Spectrum ii) Continuous spectrum iii) Band spectrum iv) Discrete
C)	If the particles listed all have the same KE, which has the longest wavelength
	i) Neutron ii) Electron iii) Proton iii) Alpha particle
D)	Rayleigh-Jean's law holds good for which of the following?
	i) Short wavelength ii) Intermediate wavelength
	iii) Both for short & long wavelength iv) Long wavelength
E)	What is the minimum possible momentum of a particle, trapped in an infinite one
	dimensional potential well of width L
	i) 0 ii) $h^2/2L$ iii) $h^2/2L^2$ iv) $h/2L$
F)	According to Moseley' the square root of the frequencies of lines in x-ray spectra depends
	linearly on
	i) Mass number ii) Atomic number iii) Quantum number iv) None of these
G)	The current due to motion of majority charge carrier is called
	i) Diffusion current ii) Conventional current
	iii) Leakage current iv) Drift Current
H)	At critical temperature, the resistivity of the superconductors fall to zero
	i) Gradually ii) Exponentially iii) Suddenly iv) None of above
I)	In Beta decay, the kinetic energy spectrum of the emitted electrons is
	i) Discrete ii) Continuous
	iii) Band spectrum iv) line spectrum
J)	The unit of activity of a radioactive source is
	i) rad ii) Curie iii Sievert iv) Roentgen

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

PAPER: Concepts of Modern Physics Course Code: PHY-201/21330 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2 Give the short answer of each question.

 $(2 \times 10 = 20)$

- i. Explain, why an evacuated tube is used to examine photoelectric emission
- ii. Briefly describe Einstein's Photo electric equation.
- iii. Briefly comment on energy- time uncertainty relationship.
- iv. Why is the Heisenberg uncertainty principle not more radially apparent in our daily observations?
- v. Explain briefly the difference between conduction band and valance band.
- vi. What is difference between spontaneous emission and stimulated emission?
- vii. State Bohr's postulates of the hydrogen atom.
- viii. Explain the difference between donor and accepter impurities?
- ix. What is metastable state? what roll such a state play in laser operation?
- x. What is doping. How N type semiconductor is formed by doping.
- Q.3 Define Compton effect. In a single photon-electron collision, show that Compton shift depends on scattering angle of photon. (1, 9)
- Q.4 (a) Derive the expression for the energy of an electron, trapped inside an infinitely deep potential well of width L. (7)
 - (b) When an electron is confined to an infinite deep potential well of width 100 pm, What will be the energy of its lowest allowed state? (3)

Q.5 (a) Explain the Rutherford's gold foil experiment for discovering the atomic nucleus. (7)
 (b) Calculate the binding energy of deuteron. The needed atomic masses are m_n= 1.008665, m(¹H) = 1.007825 u, m(²H)= 2.014102 u. (3)



UNIVERSITY OF THE PUNJAB	
Third Semester – 2019	••••••••••••••••••••••••••••••••••••••
Examination: B.S. 4 Years Program	Roll No
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CR: Physics-III (Electricity & Magnetism)	MAX. TIME: 2 Hrs. 45 Min.
se Code: PHY-211/21307 Part – II	MAX. MARKS: 50
ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE A	NSWER SHEET PROVIDED

- i. What is meant by an electric field of continuous charge distribution?
- ii. In the median plane of an electric dipole, is the electric field parallel or antiparallel to the electric dipole moment \vec{p} ?
- iii. State Gauss law for electrostatics.
- iv. Show that the capacitance with dielectric is given by $C' = K_e C$
- v. What do you mean by motional EMF?

Q.2. Write short answers of the following questions:

- vi. State Faraday's law for magnetism and write down its integral form.
- vii. What is meant by the terms Bohr magneton and magnetization.
- viii. Write down mathematical forms of any two Maxwell's equations.
- ix. How do you relate ε_{\circ} and μ_{\circ} with velocity of electromagnetic waves in free space?
- x. Why a *pn* junction is sometimes called a nonlinear circuit element?

Q. 3: (a)

Cour

(a) Consider a parallel plate capacitor filled with a material of dielectric constant. Apply Gauss' law on it to show that $q' = q \left(1 - \frac{1}{K_e}\right)$

- (b) Discuss the growth of charge in an RC series circuit due to a DC potential difference applied and find an expression for the current during its growth.
 - (5, 5)

 $(2 \times 10 = 20)$

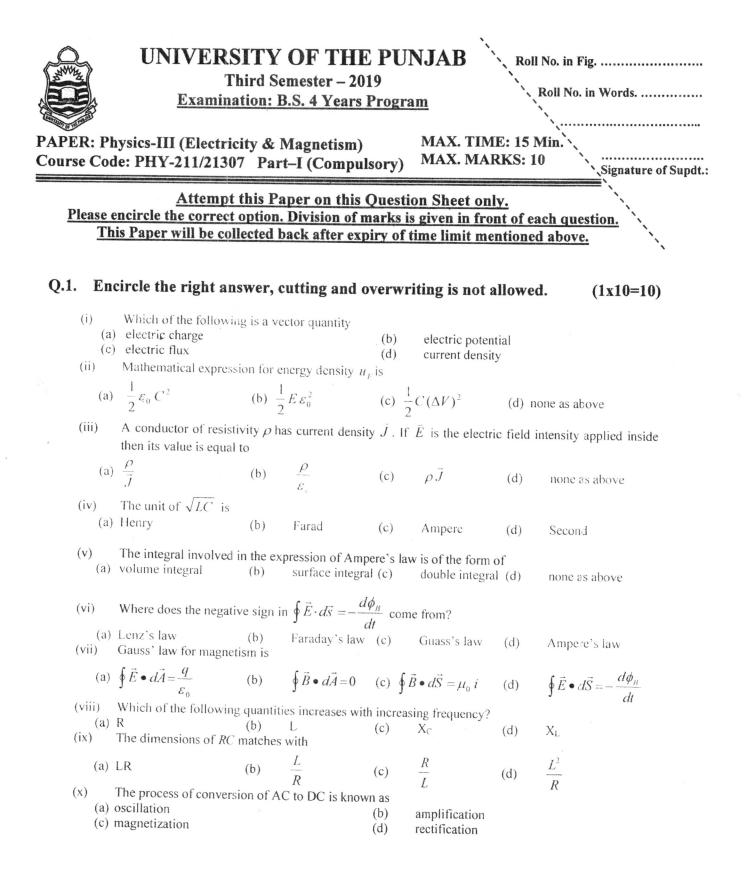
- Q.4: (a)
- What is current density? Derive microscopic form of Ohm's law.
- (b) By using Biot-Savart's law to derive an expression for the magnetic field at the center of a current carrying circular loop of radius *R*.

(5, 5)

- Q. 5: (a) Show that the energy stored in the magnetic field is given by $u_B = \frac{1}{2\mu_a}B^2$.
 - (b) Describe briefly the process of generating an electromagnetic wave

(7, 3)

		Examination cs-III (Electricity		MAX.	TIME: 15 Min MARKS: 10	```````````````````````````````````````
			Paper on this Qu	estion Shee	et only.	Signature of Supd
1 10		rcle the correct opti aper will be collecte				
Q.1.	Enciro	ele the right answe	r, cutting and ove	rwriting is	not allowed.	(1x10=10)
	(i) (a)	Electric field inside a u infinity	iniform shell of charge (b) negative	is (c) positive	(d) ze	ro
	(ii) (a)	-capacitance is	nd the plate separation of (b) doubled	of a parallel-pla (c) halved	tte capacitor are doo (d) tr	
4		The statement that mag Gauss' law for electric Faraday's law	gnetic field lines form cl aty	losed loops is a (b) Gauss' (d) Ampere	law for magnetism	e of
	(iv) (a)	Applications of Gauss' charge	law are typically used (b) current	to calculate (c) potentia	1 (d) ele	ectric field
		Lenz's law deals with t Magnetic field of EMF Both the direction and r		(b) direction (d) direction	of EMF of induced current	
	(vi)	A current carrying loop	lying in a magnetic fie	ld behaves like	a	
		magnetic dipole magnetic material		(b) magneti (d) non-mag	c pole gnetic material	
	(vii) (a)	Which of the following Gauss's law	laws was modified by l (b) Biot-Savart's law	Maxwell? (c) Faraday	's law (d) An	npere's law
	(a)	Electromagnetic waves an accelerating charge chargeless particles	are produced by	(b) a station (d) a movin		
	(a)	Displacement current es a magnetic field a changing magnetic fie		(b) moving(d) a changing	charge ng electric field	
	(x)	Mathematical expression	n for energy density u_{r}	is		·
		$\frac{1}{2}\varepsilon_0 C^2$	(b) $\frac{1}{2}E\varepsilon_0^2$	(c) $\frac{1}{2}C(\Delta I)$	(d) non	le as above





Third Semester – 2019 Examination: B.S. 4 Years Program

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Roll No.	
MAX. TIME: 2 Hrs. 45 Mi	2
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MAX. MARKS: 50	

 $(2 \times 10 = 20)$

PAPER: Physics-III (Electricity & Magnetism) Course Code: PHY-211/21307 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

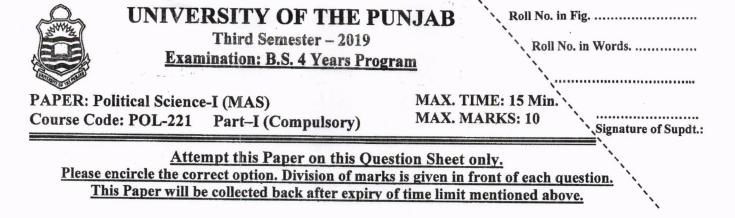
Q.2. Write short answers of the following questions:

- i. State shell theorems for electric field.
- ii. Differentiate between electric and magnetic dipoles.
- iii. What is meant by equipotential surfaces?
- iv. Define the term *superconductor*.
- v. What do you know about *current density* and microscopic form of Ohm's law?
- vi. State Gauss law for dielectrics.
- vii. State Ampere's law and give its integral form.
- viii. What is the origin of atomic magnetization?
- ix. Define Poynting vector and also write its mathematical form.
- x. What do you mean by Barrier Potential in a PN junction diode?
- Q. 3: (a) Use Gauss' law of electrostatics to find out electric field at a distance r due to an infinite line of charge.

(b) Show that the expression for the electric field of a circular disk of radius *R*, carrying a uniform surface charge density, is given by $E_{Z} = \frac{\sigma}{2\varepsilon_{0}} \left(1 - \frac{z}{\sqrt{z^{2} + R^{2}}} \right)$

- Q. 4: (a) Discuss the growth of current in an *LR* series circuit. (b) Let $R = 160\Omega$, $C = 15 \mu F$, L = 230 mH, f = 60 Hz, and $\varepsilon_m = 36 V$ for a series RLC circuit. Find; (i) the impedence Z for the circuit, and (ii) the current amplitude i_m (6, 4)
- Q. 5: (a) In an external magnetic field \vec{B} , a magnetic dipole moment $\vec{\mu}$ experience a torque $\vec{\tau}$ that rotates it in alignment with \vec{B} . Prove that $\vec{\tau} = \vec{\mu} \times \vec{B}$.
 - (b) Write down mathematical forms of Maxwell's equations.

(6, 4)



Q.1. Fill in the Blanks.

 $(1 \times 5 = 5)$

1. Said that man by nature is a social & political animal.

2. is a social science which deals with systems of governance, and the analysis of political activities, political thoughts and political behavior.

3. Tenure of Pakistan Senate is

4. Executive, and judiciary are the important pillars of government.

Q.2. Write True and False.

$(1 \ge 5 = 5)$

1. A constitution is a set of fundamental principles or established precedents according to which a state or other organization is governed.....

2. The author of book "the Prince" is Nicolo Machiavelli

3. Bicameral legislature is most suited for colonial monarchy state.....

4. Dejouro sovereignty means a government that comes into existence as a result of law and has the support of the public.....

5. Liberal democracy means limited majority.....



Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

PAPER: Political Science-I (MAS) Course Code: POL-221 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.3. Give short answers of following:

 $(4 \ge 5 = 20)$

- 1. Give Islamic concept of democracy.
- 2. Differentiate between adult and limited franchise by explaining what they mean with examples.
- 3. Briefly explain the relation of political science with
- (a) Psychology
- (b) anthropolgy
- 4. Differentiate between defacto & dejouro sovereignity.

Q.4. Give detailed answers:

$(3 \times 10 = 30)$

- 1. Explain powers and functions of judiciary branch of government.
- 2. What are the agents of political socialization?
- 3. Give a comparative analysis of dictatorship and democracy.

UNIVERSITY OF THE PUNJAB Roll No. in Fig. Third Semester – 2019 **Examination: B.S. 4 Years Program** Roll No. in Words. PER: Rules & Techniques of Swimming & Gymnastics MAX. TIME: 15 Min. P Course Code: PE-201 MAX. MARKS: 10 Part-I (Compulsory) Signature of Supdt.: Attempt this Paper on this Question Sheet only. Please encircle the correct option. 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. Tick the correct answer 10 Pommel horse is used in Gymnastics for i. a. Men b. Women c. Both a and b ii. The chin positioning in forward roll is a. Up ward b. touch with chest c. None of these iii. How many events of gymnastics for women a. 4 b. 6 c. 8 A Side way rotatory movement of the body is called iv. a. Forward roll b. backward roll c. Cart Wheel According to FINA how many lanes are in a swimming pool ٧.

c. 10

c. 8

c. Dive

c. Back

d. Breast Stroke

c. Both A & B

How many swimmers take part in Medley relay in one team

b. Cool down

b. Two hand

a. 8

a. 1

a. One hand

vi.

vii.

viii.

ix.

х.

b. 6

b. 4

Gymnastics is a sport that includes exercise

a. Flexibility b. Balance

First thing a swimmer do a. Warmup b. (

Which swimming style is easiest

a. Free Style b. Back Stroke c. Butterfly

Swimmer finish the breast stroke lap



UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

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PAPER: Rules & Techniques of Swimming & Gymnastics Course Code: PE-201 Part – II

MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. (Give the short answer of the following questions.	10 x 2
i.	Write the technique of arms and leg action in butterfly	
ii.	Describe the head and arm position in head stand	
iii.	Describe the role of center of gravity in backward roll.	
iv.	What does D and E score means in Gymnastics	
٧.	Name the different types of starts in swimming	
vi.	How many players take part in team Medley	
vii.	Write the sequence of strokes in IM (Individual Medley)	
viii.	Write the names of women events in Gymnastics	
ix.	Write the names of men events in Gymnastics	10 .
х.	Describe the role of the center of gravity and Buoyancy force to determine in the swimmer.	floating of
		loating of 5+5
x. Q.3.	swimmer.	
	swimmer. How a swimmer handle the wave resistance.	
Q.3.	swimmer. How a swimmer handle the wave resistance. i. Swimmer generated waves ii. External waves hit the swimmer	5+5
Q.3.	swimmer. How a swimmer handle the wave resistance. i. Swimmer generated waves ii. External waves hit the swimmer Explain the following in Gymnastics	5+5

a. Breast Stroke b. Butterfly

Roll No. in Fig.

Roll No. in Words.

Third Semester - 2019 **Examination: B.S. 4 Years Program** PER: Basics of Human Anatomy MAX. TIME: 15 Min. **Course Code: PE-203** MAX. MARKS: 10 Part-I (Compulsory) Signature of Supdt.: Attempt this Paper on this Question Sheet only. Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above. 0.1. Encircle the right answer cutting and overwriting is not allowed. (1x10=10)The Branch of Science which deals with the study of structure of tissues of Human Body with 1 naked eye is called A. Histology B. Physiology C. Gross Anatomy D. Mycology 2. The Pulmonary artery which carries from heart to lungs. A. Oxygenated Blood B. Red Blood C. Deoxygenated Blood D. WBC The fracture is parallel to the long axis of the bone 3. A. Transverse Fracture B. Incomplete Fracture C. Linear Fracture D. Compound Fracture The cartilage which is found on top of the epiphysis of bone is called 4. A. Fibro Cartilage B. Elastic Cartilage C. Articular Cartilage D. Hyaline Cartilage The plate which separates bone ends from shaft of the bone is called 5. A. Prophysis Plate B. Diaphysis Plate C. Epiphyseal Plate D. Fibrous Plate 6. Bone forming cells are called A. Osteoclasts B. Osteoids C. Osteoblasts D. Osteocytes 7. Specialized membrane that covers the muscle fiber in human body is called A. Transverse Membrane B. Plasma Membrane C. Sarcolemma D. Cell Membrane The inner most membrane that lines the GI tract from mouth to anus from inside is called 8. A. Sub-mucosa B. Mascularis Externa C. Serosa D. Mucosa The normal length of jejunum of small intestine in human body is 9. A. 3.0m B. 1.2m C. 2.5m D. 1.5m The part of nervous system (N.S.) which is not under the control human intentions is called 10. A. Central N.S. B. Peripheral N.S. C. Autonomic N.S. D. Somatic N.S.



Third Semester – 2019 Examination: B.S. 4 Years Program

Rol	l No	
MAX.	TIME: 2 Hrs. 45 Min MARKS: 50	

PAPER: Basics of Human Anatomy Course Code: PE-203 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers.

(10x2=20)

(3x10=30)

i.	Limbic System of Human Brain	ii.	Oblique Plane
iii.	Post-Natal Life	iv.	SA and AV Nodes
V.	Semilunar Valves	vi.	Myofilaments
vii.	Vertebral Columnar Division in Human	viii.	Coronary Arteries and Veins
ix.	Agonists and Antagonists	Х.	Cerebrum

Q.3. Answer the following questions in detail.

i. Draw and label the diagram of Human Heart? Also write a detailed note on different valves of human cardiovascular system? (5+5) ii Explain through diagram, the microscopic anatomy of Human skeletal muscle? Also describe

ii. Explain through diagram, the microscopic anatomy of Human skeletal muscle? Also describe Nerve Stimulus pattern of Human Skeletal Muscle (6+4)

Draw and label the structure of a typical Neuron? Also describe different types of Neuronsiii. according to their shape in Human Body?(6+4)



Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. in Fig.

Roll No. in Words.

PAPER: Pakistani Society and Culture Course Code: SOC-201/21432 Part–I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

- 1. 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

2. Social Mobility Means:

- a) Traveling of groups from one place to another.
- b) Participation in the cultural activities of modern age.
- c) Migration from rural to urban areas.
- d) Movement of people between positions on different levels.
- 3. What is the definition of a literate person:
 - a) A person who can read
 - b) A person who can only literate
 - c) A person who can read and write
 - d) None of these
- 4. Cultural Lag refers to:
 - a) A situation where, the Pace' of change between symbolic and material culture is uneven.
 - b) The state when symbolic culture does not change at all.
 - c) When people actively resist change.
 - d) None of above.
- 5. A Social Problem is:
 - a) Difficulty faced by people.
 - b) Difficulty faced and realized by people.
 - c) An issue that the' experts realize to be discussed and resolved.
 - d) None of these.



Third Semester – 2019 Examination: B.S. 4 Years Program

PAPER: Pakistani Society and Culture Course Code: SOC-201/21432 Part – II

Roll No
MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

- i. Family and Religion
- ii. Universal primary Education
- iii. Rural and Urban society
- iv. Society and Social Institution
- v. Characteristics of Pakistani Society

Q.3. Questions with brief answers.

$(3 \times 10 = 30)$

1. Briefly explain the major social problems in the context of Pakistani Society.

i. What are Minority and Their Belief? Briefly explain it.

iii. Explain the historical perspective of Pakistani culture in the context of Baluchistan culture.

 $(4 \ge 5 = 20)$

	UNIVERSITY OF THE PUNJAB Third Semester – 2019 Examination: B.S. 4 Years Program
PAPER: Cl	assical Sociological Theory MAX. TIME: 15 Min.
Course Cod	e: SOC-202/21433 Part-I (Compulsory) MAX. MARKS: 10 Signature of Supdt.:
<u>Please e</u> <u>Th</u>	<u>Attempt this Paper on this Question Sheet only.</u> ncircle the correct option. Division of marks is given in front of each question.
<u>Th</u>	ncircle the correct option. Division of marks is given in front of each question.

- c) Anthropologyd) International relations
- 2. _____ is known as the father of "classical sociology"
- a) Emile Durkheim
- b) Ibn-e- Khuldoon
- c) August Comte
- d) Max Weber

b) Sociology

3. The Enlightenment was a development period of

- a) Intellect
- b) Philosophical thought
- c) Sociology
- d) All of these

4. Which of the following social law/s was shared by August Comte?

- a) Social dynamics
- b) Social statistics
- c) None of these
- d) Both a & b

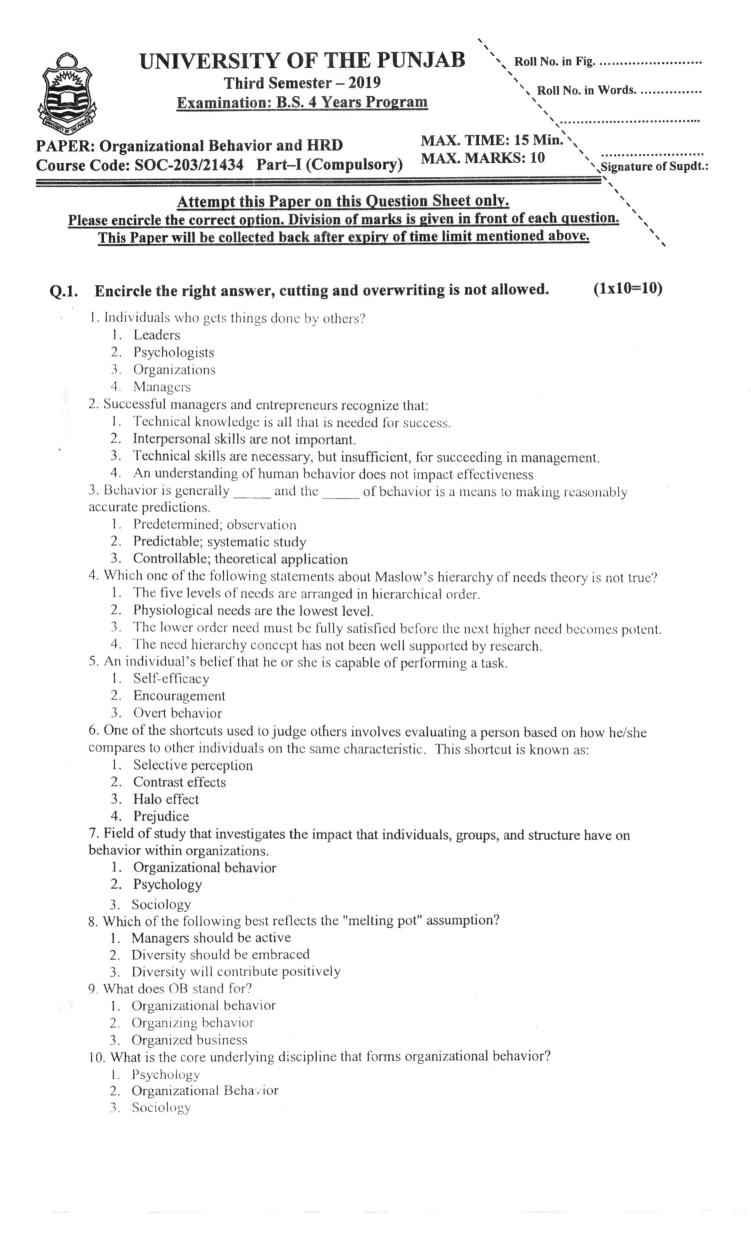
5. The conflict theory was the chief work of

- a) Emile Durkheim
- b) Karl Marx
- c) Max Weber
- d) Herbert Spencer

6. Karl Marx gave his concept of

- a) Alienation of workers
- b) Social solidarity
- c) Positivism
- d) Laisez-faire
- e) All of these

P.T.O.



Ple		stics-III STAT-201/STT-21314 Part–I(Compulsory)	MAX. TIME: 15 Min. `\ MAX. MARKS: 10	Signature of Supd
	ease enci	<u>Attempt this Paper on this Questi</u> rcle the correct option. Division of marks is		estion.
	<u>This P</u>	aper will be collected back after expiry of t	ime limit mentioned above	<u>×</u>
				(1-10-10)
.1.	Enciro	le the right answer, cutting and overwr	iting is not allowed.	(1x10=10)
	i)	A Sampling Frame should		
3		A) be non-overlapping.	B) large enough.	· .
		C) non exhaustive.	D) B&C	a Loss ¹ o
	ii)	A random sample is worst when popula	tion is	
		A) homogenous	B) heterogeneous	
		C) infinite	D) A&C	
	iii)	A Syestematic sampling is preferred in		
	-	A) industrial surveys	B) Laboratary surveys.	
		C) household surveys.	D) A&C	
	iv)	Two sided test is concerned with only	-,	
	IV)	A) composite hypothesis	B) simple hypothesis	
			D) A&C	
		C) bi-directional hypothesis	,	
	V)	Inference consists of two parts(testing a		tort
		A) first we test then estimate	B) first we estimate then	
		C) testing & estimation are done simult		
	vi)	A selection committee of a college sele	cts an incompetent teache	er, so it is
		a		
		A) Type-I error	B) Type-II error	-
		C) valid decision	D) non of the above.	
	vii)	Null hypothesis is designed for possible		
		A) acceptance	B) rejection	
		C) both A&B	D) none of the above	
	viii)	Paired t-test is applicable when		
		A) sample size is small	B) population variance is	s unknown
		C) observations are in the form of pairs	. D) all of A,B& C	
	ix)	Parameter of chi-square distribution is		
	,	A) mean	B) variance	
		C) p	D) n	
	x)	Chi- square statistics is used for		
		A) best fit	B) correlation	
		ny boot in	D/ Correlation	

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Third Semester - 2019 **Examination: B.S. 4 Years Program**

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(06)

PAPER: Statistics-III

Course Code: STAT-201/STT-21314 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. 2)	Write short answers to each of the followings. (^M	Aarks)
i)	What are the advantages and disadvantages of using this sampling	(04)
	technique?	
ii)	Differentiate between probability sampling and non-probability sampling.	(04)
	What are their relative advantages and disadvantages?	
iii)	Differentiate between Multistage and Multiphase Sampling.	(03)
iv)	What is a sampling distribution? Describe the properties of the sampling	(05)
	distribution of the means.	
\vee)	Under what conditions, the paired t-test is used?	(02)
vi)	What do you mean by p-value?	(02)
	그렇게 만들고 말했는 것 같아요. 그렇게 가지 않는 것 같아요. 이렇게 가지 않는 것 같아요. 이렇게 나는 것 같아요. 이들 것 같아요. 이렇게 나는 것 같아요. 이들 것 같아요. 이렇게 나는 것 같아요. 이들 것 않 않는 것 않는 것 않는 것 않는 것 않는 것 않는 것 않는 것	(00)
Q.3.	Using a random number table, select 30 samples of size 3 each with	(06)
	replacement from the following population distribution of heights. Find the	
	mean of sample means.	
	Height (inches) No. of students	
	60 - 62 5	

Height (inches)	No. of students
60 - 62	5
63 - 65	18
66 - 68	42
69 - 71	27
72 - 74	8

Q.4.

Q.5.

Q.6.

A sample of 40 observations from a population with unknown mean μ and (06)unknown variance σ^2 gave $\Sigma X = 800$ and $\Sigma X^2 = 16052$

A second sample taken from the same population gave

[1 10	. 10	0.0	04	00	00
·X	18	19	20	21	22	23
f	12	23	10	7	5	3

Using the data given by the two samples, find unbiased estimates of $^\mu$ and σ^2 :

A firm wishes to test the hypothesis that the average monthly wage of its shop employees is Rs.180 with a standard deviation of Rs.4.50. They wish to run a risk of only 0.05 or rejecting the null hypothesis when it is true, and a risk of only 0.05 of accepting the null hypothesis if the average is as high as Rs. 182 or as low as Rs.178. How large a sample should be taken?

A random sample of size 40 from non-normal population yielded the (06) $\overline{X}_1 = 70.4$, $S_1^2 = 31.40$ another random sample of size 50 from second non

normal population yielded $\overline{X}_2 = 65.3$, $S_2^2 = 44.82$, test the hypothesis that the difference between two means is equal to 2.

A random sample of 250 men and 250 women were polled as to their desire (06)Q.7. concerning the ownership of television sets. The following data resulted:

Classification	Men	Women	Total
Want television	80	120	200
Don't want television	170	130	300
Total	250	250	500

Test the hypothesis that desire to own a television set is independent of sex at the 0.0t level of significance.



Third Semester - 2019 **Examination: B.S. 4 Years Program**

Roll No	
••••••••••••	
MAX. TIME: 2 Hrs. 45 Min.	
MAX. MARKS: 50	

PAPER: Elementary Statistics Course Code: STAT-211/GEN-21129 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

O.2. Questions with short answers.

(4x5=20)

i) Differentiate between Population and Sample.

ii) Differentiate between Parameter and Statistic.

iii) Define Dispersion.

iv) Define Classification.

v) Define Positive and Negative Correlation.

vi) Define Null Hypothesis.

vii) Write down two properties of Arithmatic Mean.

viii) What do you mean by Probability?

ix) Describe Regression.

x) Define Sampling Without Replacement.

QUESTIONS WITH BRIEF ANSWERS

Q. No.3: A population consists of values 3, 5, 7, 9. Take all possible samples of size 2 with replacement from this population. Find the mean for each sample. Make a sampling distribution of mean and verify that:

(a) Mean of Sample Means = Population Mean

(b) Variance of Sample Means = Population Variance/n

Q. No.4: The following frequency distribution gives the ages of 100 college Students:

Ages	14-15	16-17	18-19	20-21	22-23	24-25	Total
Number of	6	16	20	31	15	12	100
students							

Compute Mean and Standard Deviation.

Q. No.5: The data of heights and weights is given below:

Height (X)	72	54	73	63	66	65	60	70	71	69	
Weight (Y)	67	57	68	64	68	72	67	73	69	72	

Find Regression Line of X on Y and Correlation Coefficient between X

and Y.

(10 Marks)

(3x10=30)

(10 Marks)

(10 Marks)

Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

MAX. TIME: 15 Min.

MAX. MARKS: 10

Roll No. in Words.

(1x10=10)

Signature of Supdt.:

PER: Elementary Statistics Course Code: STAT-211/GEN-21129 Part-I (Compulsory) Attempt this Paper on this Question Sheet only. Please encircle the correct option. 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.

- (i) Number of students in a College is an example of:
 - (a) discrete variable (b) qualitative variable
 - (c) Attribute (d) continuous variable
- (ii) The median of the following data 8,5,8,7,3,5,8 is:

(a) (b) 4(c) 7 (d) 3(iii) A numerical quantity calculated from population data is called:

- (a) Statistic (b) parameter
 - Constant (\mathbf{d}) None of above

(iv) A branch of statistics by which obtained data is organized and summarized in order to describe its nature is called as:

- (a) Explanatory statistics (b) descriptive statistics
- (c) Inferential statistics (**d**) none of these
- (v) Sampling error can be decreased by:

(c)

- (a) Increasing sample size (b) decreasing sample size
- (c) Fixing the size (d) none
- (vi) For a Negatively Skewed distribution:
 - (a) Mean, mode, median are equal (b) Mean, mode, median are not equal
 - (c) Mean is greater than mode (d)Mean is less than mode

(vii) Observed data organized into rows and columns is called:

- (a) Classification (b) Tabulation (c) Array.
 - (d) Frequency Distribution
- (viii) Mean and variance of 7, 7, 7, 7, 7 is:
 - (a) -7,7 (b) 0, -7 (c) 7.0 (d) 7,7
- (ix) The range of Correlation Coefficient is: (a) 0 to ∞
 - (b) $-\infty$ to 0 (c) $-\infty$ to ∞ (d) -1 to 1
- (x) A non-deserving player is selected in a team is an example of:
 - (a) Correct decision (b) type –II error
 - (c)Type –I error (d) level of significance



E E	Third Semester – 20 xamination: B.S. 4 Years		Roll No. in Wo	rds						
	f-Taruf o Tafheem-II 201 Part–I (Compulsor		ME: 15 Min.`\ ARKS: 10	nature of Supd						
<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>										
	ی شیٹ (Sheet) پر حسل کریں۔	ہے کے سوالا ست کوا ت	المس							
	(1x10=10)	 ۷) کا نشان لگائیں ۔ 	سرا: نوٹ کسی ایک جواب پر (سوال ^ن						
		ی تحریک پیدا ہوتی ہے؟	کلاسیکیت کے رومل میں کون	(i)						
د) مارسی کی	(ج) مابعدجدیدیت کی ((ب) جديديت کې	() كلاسيكيت كى							
			داخليت كالعلق ب؟	(ii)						
(د) معاشرت سے	(で) いい (で)	(ب) فطرت سے	() فرد کے باطن سے							
			نظم" روٹیاں'' کی ہیئت ہے:	(iii)						
(c) مربح	(5) (4)	(ب)مخس	() سدی							
		: - ^	راشد کے دوسرے مجموعے کا ن	(iv)						
(د) گمان کاممکن	(ج) لامسادی انسان ((ب) ایران میں اجنبی	(O) Jel							
		ان ہے:	شامل نصاب راشد کی نظم کا عنو	(v)						
(د) خودکلای	(ج) نياسال	(ب) آلوگراف	() وزیر چنیں							
		:~	·· آٹوگراف' کے شاعر کا نام	(vi)						
(د) مجيداتجد	(ج) اقبال	(ب) فيض	() <u>م</u> راجی							
		م، بح مصنف بين:) ''اردو میں نظم معریٰ اور آ زاد	(vii)						
(د) ڈاکٹر خواجہ محمد زکریا	(ج) ڈاکٹر وزیرآغا	(ب) ڈاکٹر حنیف کیفی	() ڈاکٹر علی محمد خان	13						
		کا عنوان ہے:	·)	viii)						
(د) خودکلای	(ج) نايال	(ب) شعاع اميد	(() خودستائی							
		ی کی تعداد ہے:	مسدی کے ہر بند میں مصرعور	(ix)						
(د) پانچ	(ج) چار	(ب) آٹھ	£: ())							
		: <u>~</u>	''الفت کا اظہار'' کی صنف	(x)						
(د) افسانه	(ج) مثنوی	(ب)گيت	() ^{id}							

• •

UNIVERSITY OF THE PUNJAB Third Semester – 2019 **Examination: B.S. 4 Years Program** Roll No. MAX. TIME: 2 Hrs. 45 Min. PAPER: Shairi Isnaaf-Taruf o Tafheem-II MAX. MARKS: 50 Course Code: URDU-201 Part – II ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHE اسس پر یے مسیس شامل سوالات کے جوابات اپنی امتحانی کابی مسیس درج کریں۔ درج ذیل سوالات کے جوایات تج بر کریں۔ سوال نمبر ٦- درج ذیل میں سے کسی ایک جزو کی تشریح کریں اور شاعر کا نام بھی لکھیں۔ 1. =1+1 () أن كنت صديون كے تاريك بهيانه طلسم ريثم و اطلس و کمخاب ميں بنوائے ہوئے جا بجا چکتے ہوئے کوچہ و بازار میں جسم خاک میں کتھڑے ہوئے خون میں نہلائے ہوئے () كى تخطيم شخصيت كى تمكنت حنائی انگیوں میں کانیٹے ورق یہ بھک گئی تو زرنگار پہلوؤں سے جھانگتی کلائیوں کی تیزنجن رُک گئی سوال نمبر ٣- درج ذیل سوالات کے مخصر جوابات تحریر کریں۔ $\mathbf{M} = \mathbf{O} \times \mathbf{M}$ (i) ''وزیر چنین' کا مرکزی خیال تحریر کویں۔ (ii) شعاع امید کا مرکزی خیال تحریر کریں۔ (iii) ن۔م۔راشد کے جارشعری مجموعوں کے نام تحریر کریں۔ (iv) آزادنظم کے جاراہم شاعروں کے نام تحریر کریں۔ منیر نیازی کے جارشعری مجموعوں کے نام تحریر کریں۔ (\mathbf{v}) سوال نمبر ۳ _ درج ذیل نظموں کا خلاصہ تحریر کریں۔ 1 = 0 + 0(ب) ناسال () روٹاں سوال نمبر ۵۔ درج ذیل میں ہے کسی ایک پرتفصیلی اظہار خیال کریں۔ 1+ (ل) قطعه، نگاری (ب) راشد کی آزادنظم نگاری

UNIVERSITY OF THE PUNJAB Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Adabi Istalahaat Course Code: URDU-202 Part–I (Compulsory) MAX. TIME: 15 Min.

Signature of Supdt.:

<u>Attempt this Paper on this Question Sheet only.</u> <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

اسس پر چ کے سوالات کوائی شیٹ (Sheet) پر حسل کریں۔ معروضی حصہ سوال نمبرا: مسمی ایک درست جواب پر (۷) کا نشان لگا کمیں۔ (i) تمثالیت کوکها جاتا ہے: تمثالیت کوکہا جاتا ہے: (⁽) فلسفۂ اشکال (ب)فلسفۂ امثال (ج) فلسفة تصورات (ii) خارجت کا ایک عضر ہے: () پکرمجوب کی تعریف (ب) رقابت کا جذبہ (ج) حسن تعلیل (iii) ہرزمانے اور عہد کی اپنی روح ہوتی ہے جے کہا جاتا ہے: (ج) روح عفر (iv) سہل ممتنع کاتعلق ہے: () سلاست بے (ب) نصاحت ہے (نت) بلاغت ہے لفظ محضوص معنى کے بجائے کوئی دوسرے معانی مراد لیے جانا کہلاتا ہے: $\left(v \right)$ () متانت (ب) علامت (ج) سلامت (vi) الفاظ کا برکل استعال خصوصیت ہے: () كاسيكيت كي (ب) علامت كي (ج) فصاحت كي مثالت خاصا ے: (vii) (ب) صارفیت کا (ج) تصوف کا () رومانویت کا (yiii) فن کی عام ڈگر ہے جٹ کرنٹی راہ تلاش کرنا کہلاتا ہے: (ج) كلاسيكيت (ب) آفاقيت () حديديت (ix) علم نفسات کی بھی اصطلاح ہے (ب) داخليت (ج) تصوريت () سطحت (x) خودیسندی، انا نیت اورتعلیٰ مظاہر ہیں: (⁽⁾ علامتیت کے (ج) عینیت کے (ج) عینیت کے





Third Semester – 2019 Examination: B.S. 4 Years Program Roll No. MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

PAPER: Adabi Istalahaat Course Code: URDU-202 Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

اس پر چ مسیں شامل سوالات کے جوابات اپنی امتحانی کالی مسیں درج کریں۔

حصدانتائی سوال نمبر۲۔ درج ذیل اصطلاجات کی تعریف کیجیے۔ بلاغت ، رومانویت ، آورد ، سہل مہتنع ، اساطیر سوال نمبر۳۔ درج ذیل ادبی اصطلاحات پر مختصر نوٹ کیھیے۔ جھیفت نگاری ، علامتیت ، مثالیت/عینیت ، آفاقیت موال نمبر۴۔ مندرجہ ذیل ادبی اصطلاحات کے بارے میں تفصیل سے کھیے: جدیدیت ، محاکات

UNIVERSITY OF THE PUNJAB Roll No. in I Third Semester - 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Nasri Isnaaf-Taruf o Tafheem-I Course Code: URDU-203 Part–I (Compulsory)

1+

MAX. TIME: 15 Min.`\ MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only. <u>Please encircle the correct option. Division of marks is given in front of each question.</u> <u>This Paper will be collected back after expiry of time limit mentioned above.</u>

اسس برچ کے سوالات کوائی شیٹ (Sheet) کر سے

		سوال نمبرا: نوٹ : کسی ایک جواب پر (۷) کا نشان لگائیں ۔
		(i) نادل' 'ابن الوقت' ' کس کی تصنیف ہے؟
(د) انتظار ^{حسی} ن	(ج) عبدالعليم شرر	(⁽) نذریاحمه (ب) عبدالله حسین
÷		(ii) "ڈراما نگاری کافن' س کی تصنیف ہے؟
(د) ۋاكىرمحدانىكم قريتى	(ج) ڈاکٹر ا ^{حس} ن فاروقی	(⁽) داکٹر گیان چند (ب) عشرت رحمانی
		(iii) افسانه" آنندی" س نے تحریر کیا؟
(د) پریم چند	(ج) منٹو	(⁽⁾ غلام عباس (ب) انتظار حسين
	? ~ =	(iv) ''زندگی، نقاب چہرے'' کس کے افسانوں کی کلیا۔
(د) منثو	(5) بيدى	(⁽⁾ انتظار حسین (ب) غلام عباس
	? <u>~</u>	(v) امراؤ جان ادائس شهر کی تهذیبی زندگی پیش کی گئی ۔
(ر) فیض آباد	(ج) كليمنو	(ل) دبلی (ب) کول کته
		(vi) ، ، تعليم بالغان' کس کا ڈراما ہے؟
(د) امجد إسلام امجد ·	(ج) خواجه معين الدين	(() امتیازعلی تاج (ب) آغا حشر
		(vii) انارکلی ڈراما ہے؟
(د) مزاحیه	(5) 5	(ب) المية (ب)
		(viii) '' جاپندنی بیکم' سس کا ناول ہے؟
(د) مستنصر صین تارژ	(ج) قرة العين حيدر	(٢) عبدالله حسين (ب) انطار حسين
		(ix) باغ و بہار کس ادارے کے تحت لکھی گئی:
(د) اور نیٹل کالج	(ج) على گڑھ کالج	() فورٹ دلیم کالج (ب) دلی کالج
		(x) ''سواسیر گہوں'' کا مرکزی موضوع کیا ہے؟
(ر) عشق	(ج) دیہات	() ئود (ب) تارىخ (



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UNIVERSITY OF THE PUNJAB

Third Semester - 2019 **Examination: B.S. 4 Years Program**

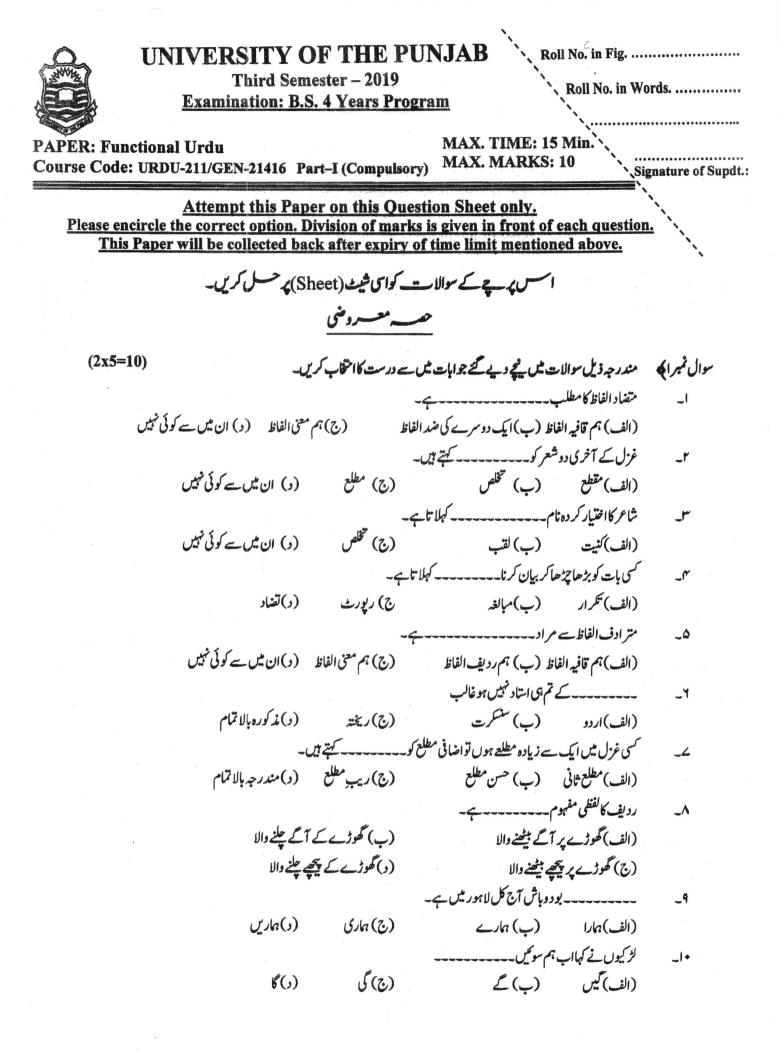
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Roll No
MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

PAPER: Nasri Isnaaf-Taruf o Tafheem-I **Course Code: URDU-203** Part - II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

اسس پر یے مسیس شامسل سوالات کے جوابات اپنی امتحسانی کابی مسیس درج کریں۔

1+=1+1+1+0 سوال نمیز ۲ یہ ایک درج ذیل اقتیاس کی حوالہ متن اور ساق وساق کے ساتھ تشریح کریں ۔ "میرے جہنر کے لیے اپنے گلج کا سب گہنا اتار کے ابا کے حوالے کیا کہ اس میں تھوڑ ی چاندی ملوا کے پھر ہے بنوا دو۔ وہ ایک عدد جو نئے ہے ہوئے تھے، ان کو اجلوا دو۔ گھر بھر کے برتنوں میں ہے دوجاررکھ لیے، باتی نکال کے علیجدہ کر دیے کہ ان برقلعی کروا دو بلکہ ایا نے کہا بھی کہانے آیندہ کا خیال رکھو۔ امان نے کہا''اوہ جی ہوگا۔تمھاری بہن زمیندار کی بیوی ہے دہ بھی تو جانیں کہ بھائی نے لڑکے کو کچھ دیا۔'' سوال نمبر ۳- درج ذیل سوالات کے مخصر جوابات تحریر کریں۔ 1. = 0× ~ (i) ریم چند کے افسانے'' ج اکبر'' کا پلاٹ مختصراً بیان کریں۔ (ii) داستان" باغ و بہار' کے کرداروں پر روشنی ڈالیں۔ (iii) افسانے''زردکتا'' کا مرکزی خیال بیان کریں۔ (iv) ناول امراؤ جان ادا کے کردار خانم کا تعارف پیش کیجیے۔ نادل کی تعریف کریں۔ (\mathbf{v}) سوال نمبر ۲۰ یہ ''انارکلی'' کس کردار کا المیہ ہے۔ بحث کریں۔ سوال نمبر ۵۔ ناول''توبیتہ النصوح'' کا تنقیدی جائزہ پیش کریں۔ سوال نمبر ۲۔ درج ذیل میں ہے کسی ایک افسانے پر مختصر نوٹ کھیے۔ (ل) فینسی میئر کننگ سیلون



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Third Semester – 2019 Examination: B.S. 4 Years Program

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2x10=20

3x10=30

PAPER: Zoology-III (Biochemistry) Course Code: ZOOL-201/ZOL-21302 Part – II

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2	Give short answer of the following
	i. Differentiate between starch and glycogen.
	ii. How pH affect enzyme activity.
	iii. What is meant by micro-evolution? Give an example.
	iv. Write the differences between coenzyme and cofactor.
	v. What is meant by immunoglobulin and its types?
	vi. State 1 st law of thermodynamics with an example.
	vii. Write major functions of lipids.
	viii. What is meant by energy flow? Briefly discuss
	ix. Explain crossbreeding with respect to evolution.
	x. Differentiate between ecosystem and biome.
~ ~	
Q.3	Long questions.
I	Write a comprehensive note on phosphorus and carbon cycle.
n	Explain different evidences of evolution in detail.
III	What is meant by homo- and hetero- polysaccharides? Write in detail
	about peptidoglycans of bacterial cell wall.

			gy-III (Biochemistry) DOL-201/ZOL-21302 Part–I (Compulsory) MAX. MARKS: 10	Signature of Su
			Attempt this Paper on this Question Sheet only.	
Plea	ise e	nciro	cle the correct option. Division of marks is given in front of each of per will be collected back after expiry of time limit mentioned ab	question.
	110	sla	per will be concered back after expiry of time mint mentalized and	
			i fina di seconda di se	(1-10-10)
1.	Enc	ircle	e the right answer, cutting and overwriting is not allowed.	(1 x10=10)
	1.		ch of the following amino acid has amide group in its side chain	
		A) B)	Cysteine · Lysine	
		C)	Glutamine	
		D)	Isoleucine	
	-	E)	None of these	
	2.	A)	minimum number of carbon in a monosaccharides is 2	
		B)	$\frac{2}{3}$	
		C)	4	
		D)	6	
	3	E)	None of these d are important constituents of	
		A)	Nucleus	
		B)	Ribosome	
		C)	Biological membranes	
	4.	D) Whi	All of these ch of the following have no enzymes of their own?	
	4.	A)	Bacteria	5 . S.
		B)	Cynobacteria	*
		C)	Viruses	
	5 (D)	All of above hydrates occur naurally in	
	5.0	A)	D-form	
		B)	L-form	
		C)	Both A and B	
	6	D)	None of these narck theory of organic evolution is usually known as	
	6.	A)	Inheritance of acquired characters	
		B)	Descent with change	
		C)	Continuity of fermplasm	
		D) E)	All of above None of these	
	7.	L) In w	which condition gene ratio remains constant in a species?	
		A)	Gene flow	
		B)	Mutation	
		C)	Random mating Sexual selection	
		D) E)	None of these	
	8.		bitat destruction can result in a loss of	
		A)	Species	
		B)	Community	
		C) D)	Ecosystem None of these	
	9.	The	e lowest tropic level of an ecosystem always includes	
		A)	Producers	
		B)	Consumers Herbivores	
		C) D)	Carnivores	
		E)	None of these	
	10	. The	e community and its abiotic environment constitutes a	
		A) B)	Biosphere Habitat	
		C)	Ecosystem	
		D)	Food web	
		E)	None of these	