AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

**Paper: Basic Functional Arabic** Course Code: AARB-111

Time: 3 Hrs. Marks: 60

# THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

# اس پرچه کومهیا کی گئ جوابی کا پی پر حل کریں۔

(15x2=30)	لسؤال الأول: مندرج ول جلول عن مناسب القائل عنالي جكري :
	1- أنا طالبللدرسة. (في اعلى الله)
	-2 كتابك. (هذه/ هذا/ تلك)
	3-      يا فاطمة! هل طالبة؟ (أنتِ/ أنتم/ أنتَ)
	4- الكتاب المكتب. (في/ من / على)
	5 مسجد. (ذلك/ هذه/ تلك)
	6- زید مصري و زینب (باکستاني/ باکستانیة/ باکستان)
	7- عنديأقلام. (خمس/ خمسة/خمسات)
	8- أحمد الجامعة. (الطالب/ طالب/ طلاب)
	9- يذهب إلى لاهورالجمعة. (يوم/ اليوم/ شهر)
	10- تأكل (خبزا/ حليبا/ ورقا)
	11 - أشرب (الماء/ التفاح/ الأرز)
	12 حالك؟ (أين <i>ا متى ا</i> كيف)
	13- هل أنت لاهور؟ (من / على/ إلى)
	14 - تلك بنت. اسمخديجة. (٥/ها/ هن)
	15- المسلمون (صالحات/صالح/ صالحون)
	السؤال الثاني: اكتب أسماء الشهور الإسلامية- (اللام محتول ك نام محين)
	السوال التابي: التب احماء الشهور الإسلامية (احماق محول عام رفي ش كوس) لسؤال الرابع: اكتب أسماء عشر فواكه (وس كالوس عام مرفي ش كوس)
	The second secon
	لسؤال الخامس: اكتب أسماء الجسم التالية بالعربية: (متدرج قبل عنام عربي على العين)

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

Course Code: AARB-122

(6x5=30)

Paper: Basic Arabic Language

ا۔حروف قرید سے کیا مراد ہے؟مثال کے ساتھ وضاحت کیں۔

ب فعل کی دو علامات ذکر کی ۔

ج۔مرکب اضافی کی تعریف لکھیں نیز مثال دیں۔

د مؤنث لفظ كي تين علامات كون سي بيس؟

هـ پانچ حروف جاره ذکر کړيي۔

و جمع کسے کہتے ہیں؟ایک مثال دیں۔

(3x10=30)

درج ذمل سوالات کے تفصیلی جواب تحریر کریں۔

سوال نمبر ۲ ندرج ذیل قرآنی آیت کا با محاوره ترجمه کریی.

أمَنَ الرَّسُولُ بِمَا أَنْزِلَ الَّذِهِ مِنْ رَبِّهِ وَ الْمَؤْمِنُونَ كُلِّ أَمَنَ بِاللَّهِ وَ مَلْبِكُتِهِ وَ كُشِهِهِ لَا نَفْرَقَ بَيْنَ آخِدٍ مِنْ رُسُلِهِ وَ قَالُوا سَمِعْنَا وَ اَطْغَنَا عُفْرَانَكَ رَبَّنا وَ الَّذِكَ الْمَصِيرُ 🔾

سوال نمبر 3: حدیث نبوی کا با محاوره ترجمه کریں.

مَنْ كَانَ يُؤْمِنُ بِاللَّهِ وَالْيَوْمِ الآخِرِ فَلْيَكُمْمْ ضَيْفَهُ، وَمَنْ كَانَ يُؤْمِنُ بِاللَّهِ وَالْيَوْمِ الآخِرِ فَلْيَصِلْ رَجْمَهُ، وَمَنْ كَانَ يُؤْمِنُ بِاللَّهِ وَالْيَوْمِ الآخِرِ فَلْيَصْفَتْ

سوال نمبر 4: درج ذيل اشعار كا ترجمه كرين-

فالشُّكر يا رتى لگ والحمدُ ما دَارَ الفَلَكُ

الكورُ ما صَنغت والهُدي ما خديثه

رضاک یا رب الغلاء فسَدِّدُ الخَطُوَ الى

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Basic French-I Course Code: AFR-111 Time: 3 Hrs. Marks: 60

Roll No.

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q1:	Write correct in	ndefinite arti	cle (un	, une, d	es) before	the followin	g nouns	. (5 Marks)
	i. ami	ii. homme	iii.	table	iv.	crayon	v. to	élévisions
Q 2 :	Write correct d	efinite articl	e (le, la	, les) be	fore the fo	ollowing nou	ns.	(5 Marks)
	i. fille	ii. stylo	iii. 1	nagasin	s iv.	gare v.	école	
Q3:	Write the follo	wing number	rs in fig	ures :				(6 Marks)
i. v.		ii. quatr vi. trente		iii.	douze	iv.	dix-se	ept
Q4:	Write the follow	wing number	s in Fr	ench.				(10 Marks)
	i) 1	ii) 6	iii)	10	iv) 22	v) 40		
Q 5 :	Conjugate any (Exemple : dire				in present	form (je, il,	vous).	(10 Marks)
i)	parler ii) al	ler iii)	faire	iv) t	éléphonei	£.		
Q6:	Translate any f	our of the fo	llowing	g senten	ces from I	rench into E	nglish <u>o</u>	<u>r</u> Urdu. (12 Marks)
i. iv.	Bonjour. Elle a des c	assettes.	ii. v.		se lève à s rle françai	ix heures. s. vi.	iii. Il hab	Comment vas-tu?
v.							11 1140	no a Islandou.
Q7:	Translate any f	our of the fo	llowing	g senten	ces from I	English into F	rench.	(12 Marks)
i.	It is Monda	y.	ii.	How	are you?		iii.	What time is it?
iv.	She lives in	Multan	v.	I have	e a pen.		vi.	He eats an apple.

Paper: History of Civilization - I

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Course Code: AHBF-107

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- 1. Write about the subject matter of Stone Age.
- 2. Give one example of cave painting with diagram?
- 3. Write about subject matter of Ishtar Gate?
- 4. What do you know about Egyptian wall paintings?
- 5. Write about the surface and subject matter of Greek orders.
- 6. Write five characteristics of Babylonian architecture.

#### Q.2. **Answer the following questions**

- 1. What is Sumerian Art known for? Explain with two examples.
- 2. What do you know about Neolithic architecture? Discuss with examples.
- 3. Indus Valley town planning is famous all over the world. Discuss.

AD (2 Y

diplomacy

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: International Relations Course Code: AHIR-101

Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1.	Write short note on the following.	(6x5=30)
		سوال نمبر1:
I.	Evaluate different types of Diplomats	I. سفار تکارول کی مختلف اقسام بیان کریں۔
II.	Write short note on the features of Realism	II. حقیقت ببندی کے بنیادی نکات مختمر بیان کریں۔
III.	Why study International Relations, write at least three reasons	III. بين الا قواى تعلقات كامطالعد كيول ابهم ب- كوئى تين وجوابات تعيس
IV.	Define the concept of national interests	١٧. قوى مفادكے تصور كى وضاحت كريں۔
V.	V. Elaborate Balance of power in International relations	V. بين الا قواى تعلقات بيس توازن طاقت كي وضاحت كري_
VI.	Describe three features of modern	VI. جدید سفار تکاری کی تمن خوبیاں بیان کریں۔

$\Omega$ 2	Answer the	following	questions
W.Z.	Aliowei ule	IUIIUWIIIU	uuesiiviis

(3x10=30)

سوال نمبر 2: درج ذیل سوالات کے جوابات تحریر کریں۔

 Define International Relations. Discuss its nature and scope. أ. بن الا قواى تعلقات كى تعريف كرين - نيزاس كى نوعيت اور وسعت تحرير سيجير-

What is Idealism? Discuss its salient features.

ii. عینیت پندی کیاہے۔اس کے بنیادی نکات بیان کیجے۔

III. Discuss the peaceful ways to resolve conflicts international politics.

iii. بین الا قوای سیاست میں تنازعات کے پر امن عل کے طریقوں کوزیر بحث لا میں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: AHIS-111

<b>Q.1.</b>	Write short note on the following.	(5x6=30)
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سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

i. Definition of History

**Paper: Introduction to History** 

ii. Historiography

ii. تاريخ تاري

iii. Objectivity in History

iii. تاریخی معرومنیت

iv. Secondary Documents

iv. ٹانوی ڈرائع

Oral History V.

#### Q.2. Answer the following questions

سوال نمبر 2: درج ذیل سوالات کے جوابات تحریر کریں۔

i. Explain the relationship of history with social sciences.

ii. Discuss the different types of history. ii. تاریخ می مخلف اقسام پر بحث کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

**Paper: World History** Course Code: AHIS-122 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

(5x6=30)

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

i. Mesopotamian Civilization

i\_میسویونیمیا تبذیب

ii. Renaissance

11-نشاة ثانيه

iii. What do you know about the Abbasid rule?

iiiءعای حکومت کے بارے میں آپ کیا جانتے ہیں؟

iv. Establishment of Mughal Empire

iv\_مغليه سلطنت كا قيام

v. Colonialism

۷۔استعاریت

Answer the following questions

(2x15=30)

درج ذیل سوالات کے جوابات تحریر کریں۔

Q. No. 2. Highlight the salient features of Mesopotamian Civilization.

سوال نمبر 2۔ میسو یو نبیسا کی تہذیب کی نمایاں خصوصیات کو اجا کر کریں۔

Q. No. 3. Discuss the causes and impacts of Cold War.

سوال نمبر 3- سر دجنگ کے اساب اور اثرات پر بحث کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Paper: History of Revivalist Movements in Islam

Course Code: AHIS-416

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

!. Why is Ibn Taimiyah known as a revivalist scholar.

i. ابن تیب کواحیائے علم کاعلمبر دار سکالر کیوں کہاجاتاہ؟

2. What was the main goal of Sheikh Ahmad Sirhindi's movement.

ii. فيغ احد سر بندى كى تحريك كابنيادى مقصد كياتا

How did Shah Walli Ullah help Muslims of India during the 18th century?

iii. شاہ ولی اللہ نے اٹھارویں صدی کے دوران ہندوستان کے مسلمانوں کے لئے کیا خدمات سر انحام دیں۔

4. What was the purpose of the Jihaad Movement among Indian Muslims by Syed Ahmad Shaheed.

iv. سیدا حمد شہید کی تحریک جہاد کے ہندوستانی مسلمانوں کے لئے کیا مقاصد تھے؟

5. Briefly discuss the role of Nadwat ul Ulema in the Awekening of Indian Muslims.

v. ندوة العلماء کی ہندوستانی مسلمانوں کی بیداری کے لئے مختصر اجائزہ لیں۔

Answer the following questions

(2x15=30)

درج ذیل سوالات کے جوابات تحریر کریں۔

O. No. 2. Discuss in detail the services of Jamal ud Din Afghani .

جمال الدين افغاني كي غدمات كاتفصيلي حائزه ليس

Q. No. 3. Highlight the salient features of the Jihaad Movement.

تح مک جماد کی نمایاں خصوصیات بیان کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

**Paper: Introduction to Punjabi Literature** Course Code: AHPB-112 Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔ (5x6=30)

- 1۔ "بوہل نماز" سیبدی تخلیق اے تے ایبدے وچ کس قتم دے مسلے بیان کیتے گئے نیں؟
  - بایا فرید ؓ نے کس صنف وچ شاعری کیتی ؟ کوئی شعری مثال وی دیو۔
  - وارث شأةٌ كتفول دے رئن والے بن تے اوہناں دی وجہ شہرت كيہ اے؟
    - گھٹو گھٹ قدیم تے جدید چھے پنجالی نثری صنفاں دے نال وسو۔
      - "لوری" کیہ ہوندی اے ؟ شعری مثال وی دیو۔ -5

درج ذیل سوالات کے جوابات تحریر کریں۔

پنجابی شاعری دیاں صنفاں مثنوی، سی حرفی تے دوہڑے دی وضاحت مثالاں راہیں کرو۔ 5x3=15 -1

ہیٹھ لکھے سرناویاں وجوں کے دوائتے بھر وال نوٹ لکھو۔ 7.5+7.5=15

الف) كافي ب) ناول ج) افسانه

AD (2Years) & BS (4Years) Degree Program/Second Semester–Spring 2025

Paper: Fundamentals of Philosophy (AH) Course Code: AHPH-100 Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions:

(5x6=30)

- i. Explain the Socratic Method.
- ii. Explain Skepticism.
- ii. Explain the Divine Command Theory.
- iv. Elaborate Thomas Kuhn's Theory of Scientific Revolution.
- v. What art is?
- vi. Explain the Problems of Induction.

#### Q.2. Answer the following questions.

- i. What are the origins of Justice and the Social Contract?
- ii. Write a note on Art as expression of emotions.
- iii. Write a note on Deontology.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Introduction to the Topics of the Qur'an

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

سوال نمبر 1: درج ذیل پر مخضر نوٹ تح پر کریں۔ (6x5=30)الف - عقیدہ توحید سے متعلق ایک قرآنی آیت مع ترجمہ تحریر کریں۔ ب- اسلام میں کون کون می نمازیں فرض ہیں؟ ج۔ امر بالمعر وف اور نہی عن المنكرے كيامر اوے؟ د ۔ فج کی فرضیت ہے متعلق قر آنی آیت مع ترجمہ تحریر کریں۔ ه ـ روزول کی اہمیت پر مخضر نوٹ لکھیں؟ و۔ زکوۃ کے پانچ فوائد تحریر کریں۔

Course Code: AISL-100

درج ذیل سوالات کے جوابات تحریر کریں۔ (3x10=30)سوال نمبر2: عقیدہ آخرت کے انسانی زندگی پر کیااثرات مرتب ہوتے ہیں؟ سوال نمبر 3: حج كي اجميت اور احكام قر آني آيات كي روشني مين تحرير كري-سوال نمبر 4: معیشت کامفهوم اور قر آنی آیات کی روشنی میں اس کی اہمیت بیان کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Introduction to Pakistan Studies Course Code: APAK-111 Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1.	Write short note on the following.	(5x6=30)	
		درج ذیل پر مختفر نوٹ تحریر کریں۔	سوال نمبر1:
i.	Is Pakistan Studies an art?		
		شان ایک فن ہے؟	i. كيامطالعه يأك
ii.	Scope of Pakistan Studies		- Was 1
		نان كا دائر ه كار	ii. مطالعه ياكنة
iii.	Pakistan Studies' Relation with Sociology		
		شان کاسوشیالوجی سے تعلق	iii. مطالعه یا
iv.	Objectives of the Pakistan Studies	5 3 30 330	(M), P8520
	# (996.ASBURGSBWASARSSAS	نتان کے مقاصد	iv مطالعه باک
v.	Ideology of Pakistan		•
		ئان	v. نظریه پاکت
Q.2.	Answer the following questions	(2x15=30)	
		درج ذیل سوالات کے جوابات تحریر کریں۔	سوال نمبر2:
i.	Discuss the significance of Two Nation Theory	<b>k</b> o	
		یه کی ایمیت پر بحث کریں۔	i دو توی نظر
ii.	Highlight the Problems & Solutions in Promoti	ng the Pakistan Studies.	30 22
	ں۔	تان کو فروغ دینے میں مسائل اور ان کے حل کو اجا کر کر <sup>ہ</sup>	ii. مطالعه باکن

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Pakistani Society and Culture Course Code: APAK-122

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- Define society and explain its basic patterns of social organization.
- 2. What is the concept of culture? Explain with examples from Pakistani society.
- Differentiate between ethnocentrism and cultural relativism.
- 4. Write a note on the rural and urban society of Pakistan.
- Explain the role of communication in social change.
- 6. What are the main social problems in Pakistan?

#### Q.2. Answer the following questions

- Describe the cultural institutions. Discuss the role of religion as a social institution and its impact on societal values and traditions.
- Explain how class and caste differences shape social stratification systems in different cultures.
- Explain the impact of industrialization and technology on Pakistani society.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Introduction to Health and Physical Education Course Code: APED-111

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- Compare and contrast the concepts of health and physical education.
- 2. Identify and explain the five components of physical fitness.
- 3. What is the impact of poor nutrition on physical health?
- 4. Describe the basic principles of anatomy and physiology relevant to movement.
- 5. What is the importance of hydration for active individuals?
- 6. Mention three lifestyle strategies that promote mental well-being.

#### Q.2. Answer the following questions

- Critically assess the role of health and physical education in developing lifelong wellness habits.
- Discuss strategies for managing stress through regular physical activity, providing real-life examples.
- Analyze the communication techniques that make health promotion initiatives more effective.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: A Study of Classical Persian Prose **Course Code: APER-111** 

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

# نوا: تمام سوالات كے جواب كليے

13

سوال نمير: 1) ورج ذيل نثريار كابامحاوره اردور جمد يجي:

سعادت آدمی در معرفت حق است و در بندگی و عبادت اوست؛ اما آنکه بندگی و عبادت سبب سعادت آدمی است، آنست که سرکار آدمی چون بمیرد، با حق خوابد بود و بر که را قرارگاه با کسے خواہد ہود، سعادت وی آن بود کہ دوستدار وی بود و ہرچند دوست تر دارد، سعادت وی بیشتر بود از آنکه لذت و راحت وی در مشابدهٔ محبوب زیادت بود. و دوستی حق تعالی بر دل غالب نشود الا به معرفت و بسیار ذکر۔

سوال نمبر : 2) ورج ذيل نثريار عكابا محاوره اردوترجمه كيجي:

چون رابعه بزرگ شد، پدر و مادرش بمردند و در بصره قحطی عظیم پیدا شد و خوابران متفرق شدند و رابعه به دست ظالمي افتاد او را به چند درم بفروخت آن خواجه او را به رنج و مشقت كار می فرمود ـ روزی در راه از نامحرمی بگریخت، بیفتاد و دستش بشکست ـ روی بر خاک نهاد و گفت: الهي! غريبم و بي مادر و پدر، و اسيرم و دست شكسته، مرا از اين بمه بيچ غم نيست، الا رضای تو می باید۔

درج ذیل انتخاب کا مامحاوره ار دوتر جمه کیجیے: 14 سوال نمبر: 3)

دزدی به خانهٔ پارسایی در آمد؛ چندان که جست چیزی نیافت. دلتنگ شد. پارسا را خبر شد. گلیمی که در آن خفته بود، برداشت و در راه دزد انداخت تا محروم نشود.

دل دشمنان را نکردند تنگ شنیدم که مردان راهِ خدای که با دوستانت خلاف است و جنگ؟ تو را کی میسر شود این مقام

امام غزالی کے احوال زندگی درج بیجیے اور ان کے فاری آثار کا تعارف کروائے 10 سوال نمبر: 4)

تذكرة الاولياء يرتعار في مضمون لك<u>ص</u> سوال نمبر: 5) 10

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: APHL-111

Time: 3 Hrs. Marks: 60

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

1. What is a deductive argument?

Paper: Logic and Critical Thinking

- Define validity and truth in logic.
- 3. What are quality and quantity in categorical propositions?
- 4. Write two rules of implication in propositional logic.
- 5. What is the difference between superstition and scientific reasoning?
- 6. Define conversion and obversion.

#### Q.2. Answer the following questions

- Explain how to translate ordinary language statements into logical forms.
- 2. Draw and explain truth tables for two propositions.
- 3. Discuss hypothetical reasoning with examples.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

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Course Code: APSY-121N

Time: 3 Hrs. Marks: 60

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q 1) Differentiate the following terms with examples (Marks 5X 4=20)

A. Ethics, Morality and Law

Paper: Legal & Ethical Issues in Psychology

- B. Beneficence and Nonmaleficience
- C. Debriefing and Deception
- D. Boundaries of competence and maintaining competence

### Q2) Briefly describe ethical standards in accordance with APA (Marks 5X4=20)

- A) Human Relations
- B) Privacy and confidentiality
- C) Advertising and other Public Statements
- D) Plagiarism and Confidentiality
- Q 3) Briefly describe the Code of ethics provided by the British Psychological Association along with their application? (Marks 5)
- Q 4) Write a detail note on Informed consent. (Marks 5)
- Q 5) What are the ethical guidelines given by APA to be followed in therapy (Marks 10)

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Cognitive Psychology Course Code: APSY-122N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- Write two differences between perception and attention.
- 2. What is the role of sensory memory?
- 3. What is pattern recognition? Give an example.
- 4. Define episodic memory.
- 5. What is syllogism?
- 6. What is linguistic determinism?

#### Q.2. Answer the following questions

- 1. Explain the organization of the brain and its role in cognition.
- 2. What is depth perception? Describe how we understand distance and size.
- 3. Describe implicit and explicit memory with daily examples.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

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Paper: Financial Accounting Course Code: BBA-111N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(10x3=30)

- a) What is inventory, and why is it important in financial accounting?
- b) What are the main purposes of inventory holding?
- c) List two limitations of maintaining high inventory levels.
- d) Define cash equivalents with an example.
- e) How does a petty cash system support internal control?
- f) What causes timing differences in bank reconciliation?
- g) Why is a bank reconciliation statement prepared?
- h) Differentiate between the direct write-off method and the allowance method.
- i) Differentiate between provision and reserve.
- State two purposes of charging depreciation on fixed assets.

#### Answer the following questions

(3x10=30)

#### **Question No. 02**

Atlas Traders has accounts receivable of Rs. 745,000 as of March 31. An analysis of the accounts provides the following details:

Month of Sale	Balance at March 3	
March	Rs. 480,000	
February	Rs. 140,800	
January	Rs. 68,000	
Before January	Rs. 56,200	
Total	Rs. 744,200	

Credit terms are 2/10, n/30. At March 31, the Allowance for Doubtful Accounts has a credit balance of Rs. 9,600 before adjustment. The company uses the percentage-of-receivables basis to estimate uncollectible accounts. The company's estimate of bad debts by age group is as follows:

Age of Accounts	Estimated Percentage Uncollectible
1-30 days	2%
31-60 days	5%
61-90 days	30%
Over 90 days	50%

#### Instructions:

- a) Determine the total estimated uncollectible accounts.
- b) Prepare the adjusting entry at March 31 to record bad debt expense.

#### Question No. 03

The following data relate to the bank account of Amir Company as of June 30, 2024:

- a) The June bank statement showed a closing balance of Rs. 34,240
- b) The depositor's record showed a balance of on June 30 of Rs. 32,426.
- c) Deposit in transit amounted to Rs. 3,560

d) The four cheques were outstanding cheques as follows:

Cheque #	Amount
#521	Rs.460
#528	356
#530	724
#531	1,700

- e) Also included in the June bank statement was a debit memorandum from the bank for Rs. 356 representing service charges for July.
- f) A credit memorandum enclosed with the June bank statement indicated that a note receivable for Rs.720 collected by bank from a customer and credited to the account of Amir Company.
- g) A Rs. 4,040 cheque that Amir had deposited was return by the bank because it is a bad (NSF) check.
- h) Bank collected a Rs. 8,060 note for Amir, charging a Rs. 100 collection fee.
- i) Amir wrote a cheque of Rs.560 but recorded it in the books as Rs. 650.
- Bank had charges a Rs. 2,240 cheque written by Ahmad to the account of Amir company.

#### Requirement:

Prepare a Bank reconciliation statement of Amir Company.

#### **Ouestion No. 04**

Aurora Merchants is a trading company using a perpetual inventory system. At the beginning of March, the ledger of Aurora Merchants showed Cash Rs. 1,50,000 and R. Ali, Capital Rs. 1,50,000. The company completed the following merchandising transactions during March:

- Mar 2 Purchased merchandise on account from Summit Suppliers for Rs. 98,000, terms 2/10, n/30.
- Mar 4 Sold merchandise on account for Rs. 91,000, terms 2/10, n/30. The cost of the merchandise sold was Rs. 68,500.
- Mar 5 Paid Rs. 4,000 freight charges on the March 4 sale.
- Mar 11 Paid Summit Suppliers in full, less the available discount.
- Mar 13 Received collections in full from customers billed on March 4, less the allowable discount.
- Mar 15 Purchased merchandise for cash Rs. 61,000.
- Mar 24 Sold merchandise for cash Rs. 88,000. The cost of merchandise sold was Rs. 69,000.
- Mar 30 Sold merchandise on account for Rs. 59,500, terms n/30. The cost of the goods sold was Rs. 45,500.

#### Requirement:

Journalize the above transactions for March in the general journal of Aurora Merchants, using the perpetual inventory system.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

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Time: 3 Hrs. Marks: 60

Roll No.

Paper: Introduction to Human Resource Management

#### Course Code: BBA-112N

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- Differentiate between criterion and content validity
- ii. Job specification vs job description
- iii. Strategic HRM
- What is high performance work system
- v. Differentiate among termination, layoff and network employees

#### Answer the following questions

(3x10=30)

Question 2: Differentiate between soft and hard HR practices along with their benefits to the today's organizations? Explain with real time examples.

Question 3: Discuss the importance of HR planning. How does it help avoid employee shortages or surpluses? Explain the steps involved in the employee selection process. How do organizations ensure fairness in hiring?

Question 4: What is meant by reliability and validity in the context of employee selection tests? Explain the different types of reliability and validity used in HRM. Why are these concepts critical in evaluating selection tools?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Principles of Genetics Course Code: BCBT-102 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

Roll No.

- 1) Draw a Punnett square to explain Mendelian Law segregation and explain it.
- 2) Discuss Multiple allelism and provide example.
- 3) Discuss physical map and how it is constructed.
- 4) Describe Hemophilia as X-Linked inheritance?
- 5) Discuss physical mutagens with examples?
- 6) Define the followings:
  - 1) Exons 2) In Complete dominance 3) Genetic drift 4) Methylation 5) Epistasis

#### Q.2. Answer the following questions

- Describe a genetic map construction procedure.
- 2. Discuss Bacterial recombination and explain Transduction.
- 3. Write a detailed note on Prokaryotic Transcription.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

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Paper: Graphic Arts Course Code: BFA-124 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer any SIX of the following short questions. (6x5=30)

- I. Etching needle
- II. Counter Proof
- III. Bench Hook
- IV. Scraper
- V. Burnisher
- VI. Difference between Dry point and Etching
- VII. Planography
- VIII. Bevelling

#### Q.2. Answer any THREE of the following questions.

(3x10=30)

Roll No.

- I. What is Etching technique in Intaglio Printing?
- II. How do you Identify Aquatint?
- III. Describe the process of Dry Pint.
- IV. What is the difference between wood cut and wood engraving?
- V. What is the importance of preparation of clay before making a head in plaster?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Basic Design Studio – II Course Code: BFGD-103 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- 1. What is impact of HARMONY in colours and shapes?
- 2. Define SEMIOTICS? Why they are important in design communication
- 3. What is of RHYTHM in design? Give examples
- 4. Describe the ELEMENT OF ART? How they can be used to create CONTRAST?
- 5. Write about the significance of COLOUR PSYCOLOGY in Graphic Design?
- 6. Write about the role of NEGATIVE SPACE in a layout?

#### Q.2. Answer the following questions

- 1. Describe RULE OF ODDS in composition? Compare with other compositional rules?
- 2. Describe the RULE OF GOLDEN SECTION? Explain with examples.
- Discuss the importance of understanding the meanings behind SIGNS AND SYMBOLS, and how cultural and personal experiences can influence their interpretation.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Drawing Studio – II Course Code: BFGD-104 Time: 3

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

- i. Define the importance of line quality in art?
- ii. What are the primary considerations while handling pen and ink media?
- iii. List three ways light affects the appearance of objects in drawing.
- iv. What does self-expression mean in art?
- v. Define cross-contour drawing with an example.
- vi. What is a wireframe in art?

#### Q.2. Answer the following questions

- i. Discuss the importance of character design in visual storytelling. Explain the key elements to consider while designing a unique character.
- ii. Explain the principles of perspective drawing. Illustrate with diagrams how one-point and two-point perspective work in art composition.
- iii. Describe how light and shadow influence the visual depth and form in drawing.

  Provide examples of different light source effects.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Photography Course Code: BFGD-112 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- 1. How did the invention of digital photography transform both the accessibility and quality of image-making?
- Compare and contrast street photography with heritage and cultural photography in terms of purpose and approach.
- 3. How do shutter speed and ISO interact in low-light photography? Provide examples.
- Evaluate the importance of metering in achieving proper exposure in dynamic lighting conditions.
- How did Richard Avedon revolutionize portrait photography? Give one example of his notable work.
- 6. Explain the artistic value of photojournalism during times of social or political crisis.

#### Q.2. Answer the following questions

- 1. Examine how the different genres of photography (e.g., fashion, wildlife, documentary) influence storytelling techniques and audience engagement.
- Select any three photographers from the course list and analyze how their stylistic approaches reflect changes in photographic trends and technology.
- Discuss in detail how a photographer plans and executes a shoot—from conceptualization to editing and printing—using both technical and creative considerations.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No. .....

Paper: Bagawad Geeta Course Code: BG-001 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

Note: Attempt FOUR Questions from Section-II and Section-III, Section-I is Compulsory.

#### SECTION – I (10 x 2 = 20 MARKS)

Q.1. Write short answers of the following questions.

سوال نمبر 1: مندرجه ذیل سوالات کے مخضر جواب لکھیں۔

1. مجيم كويده كيان كس ديوتانے ديا؟

2. کورووں کی جانب ہے جو کاکس نے کھیلا؟

3. یانڈوؤں میں سب سے زیادہ حمیانی کون تھا؟

4. ہندود هرم میں شوجی کو کس نام سے جاناجاتا ہے؟

5. یانڈوؤں کے والد کا کیانام تھا؟ 🖖

6. اجھیمنیوکس کے بیٹے ہیں؟

7. ابھیمنیو جنگ کے دوران کہاں تھنے تھے؟

8. یانجال زیش کس کے والد تھے؟

9. امبانے دوسراجم کس نام سے لیا؟

10. كرن كي صح الحد كركياكرتے تھے؟

### SECTION – II $(2 \times 10 = 20 \text{ MARKS})$

Note: Attempt any TWO questions from the following.

نوٹ: مندرجہ ذیل سوالات میں سے کوئی سے دوسوالات کے مختصر جواب لکھیں۔

.Q2 ماہا بھارت سے اور جھوٹ کی جنگ کیوں تھی؟

. Q3 يدهشر اور دريو دهن كى حكومت كا جائزه ليس؟

.04 شرى كرشن ستنابور ميں جنگ ہے پہلے كيا پيغام لے كر گئے؟

. Q5 مباہمارت میں و هر م كاتصور كس طرح بيان كيا كيا كيا كيا

### SECTION - III (2 x 10 = 20 MARKS)

Note: Attempt any TWO questions while Question No. 9 is compulsory.

نوٹ: مندرجہ ذیل سوالات میں سے کوئی سے دوسوالات کے مختصر جواب لکھیں۔ جبکہ سوال نمبر 9لازمی ہے۔

Q.6 ارجن جنگ ہے پہلے کن پریشانیوں ہے دوچار تھے؟

Q.7 جنگ سے پہلے ارجن اور ور يووهن شرى كرشن كے ياس كياما تكنے گئے تھے؟

Q.8 كرن كى شخصيت پر تغصيلي نوٹ تكھيں؟

Q.9 مندرجه ذیل مندی الفاظ کاار دومیں ترجمه کریں

شمشان ابهيمان يرماتما شلوك آكاش

E A

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: BOT-114

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

**Paper: Fundamentals of Plant Taxonomy** 

(10x3=30)

- Define plant taxonomy. Give its significance.
- 2. Write distinctive features of family Poaceae?
- 3. Define botanical nomenclature and binomial nomenclature.
- 4. Define inflorescence. Write names of special types of inflorescence.
- 5. Define compound leaf? Enlist its different types.
- 6. Write down the vernacular and botanical names of 4 members of family Solanceae?
- 7. Draw neat and clean floral diagram of Cassia fistula L.?
- 8. Differentiate between racemose and cymose inflorescence? Give example.
- 9. Write economic importance of family Solanaceae?
- 10. What is the difference between habitat and habit.

#### Q.2. Answer the following questions

- What is Natural System of Classification. Give the Salient features of Benthem & Hooker System of Classification.
- Define a leaf? Describe the different parts of leaves in plants.
- 3. Write a detailed note on family Rosaceae? Also give its economic importance. Explain with the help of floral diagram and floral formula?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Biodiversity and Conservation Course Code: BOT-116 Time: 3 Hrs. Marks: 60

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Write short note on the following. Q.1.

(5x6=30)

- I. Differentiate between habitat and niche.
- II. What are the threat faced by native species due to invasion by alien species?
- III. How we can spread awareness among general public about the importance of biodiversity and its conservation?
- IV. Write a short note on Habitat fragmentation.
- V. What are the opportunities and challenges to conservation of biodiversity?

#### Answer the following questions

- Explain in detail the species invasion and its major types. Q. 2.
- Write a comprehensive note on In-situ and Ex-situ conservation of biodiversity. Q. 3.
- Q. 4. What is the National conservation strategy of Pakistan?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Fundamentals of Genetics and Evolution Course Code: BOT-118

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- 1) Describe Mendelian Law of Independent Assortment.
- 2) What are Lethal Alleles and its types?
- 3) Discuss Extra Nuclear inheritance?
- 4) Discuss the role of mutation in evolution.
- 5) What is a test cross and a back cross?
- 6) Differentiate between Allozymes and Isozymes.

#### Q.2. Answer the following questions

- 1. Describe Bacterial Transformation through Conjugation.
- 2. Describe steps wise procedure of transcription in Eukaryotes
- 3. Discuss how genetic maps are constructed in plants.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Course Code: BSAR-103N Paper: Basic Arabic Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

سوال نمبر 1: درج ذیل سوالات کے مختصر جواب تح پر کریں۔ (5x6=30)

(i) صحح/صححى الأخطاء في الجمل الآتية. (جملون من موجود اغلاط كودرست كرس)

 (أ) هذه هي منرسة القديمة. (ب) والدتي طبيبٌ كبيرةٌ. (ج) عندي ملابسُ جديدٌ.

(ii) اسم اشاره کی تعریف کریں، اور اسم اشارہ بعید تکھیں۔

(iii) أجب/أجيبي عن الأسئلة التالية بالعربية. (سوالات كاعر لي مين جواب دين)

2. مَنْ معك في السيارة؟ 2. مَنْ معك في السيارة؟

(iv) عرّف/ عرق بالجملة الفعلية، وهات مثالا واحدا (جمله فعليه كي تعريف كرين اورايك مثال بهي ذكركرين)

(V) استخدم الأفعال في جملك المفيدة. (ان افعال كواية عربي جملول مين استعال كرين)

2: تُحتَّمُنُ 3: تُتحتُونُ 2:

درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ (3x10=30)

سوال2: درج ذیل اشعار کارجمه کریں۔

إذا ما كُنتَ ذا قلبٍ قنوع فأنتَ ومالكُ الدنيا سواء

ومَنْ نزلتْ بساحته المنايا فلا أرضٌ تقيُّه ولا سماء

قال الرسول ﷺ:"البرُّ حسن الخلق، والإثمُ ما حاكَ في نفسِكَ، وكرِهْتَ أن يطِّلِعَ عليه الناسُ."

سوال 4: درج ذیل جملوں کی عربی بنائس۔

1-دین میں آسانی ہے 2۔ فاطمہ، دروازہ کھولو۔ 3۔ یہ ایک لمبی دیوارہ۔

4۔ ہم کل رات سفر کے لیے نکل پڑے۔ 5\_ میں جوس نہیں، جائے پتیا ہوں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

Paper: Functional Arabic - II

Course Code: BSAR-104N

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

# السُوَّالُ الأَوِّلُ: إِمْلَا الفَرَاغَ مِمَّا بَيْنَ القَوسَيْنِ . (٥)

١. تَقْضِى أَيَّامَ العِيدِ ؟ ( أَيْنَ ، مَاذًا )
 ٢. تَقْضِى الْعُطْلَةُ ؟ ( هَلْ ، كَيْفَ )
 ٣. العُطْلَةُ ؟ ( مَتَى ، هَلْ )
 ٤. فَطَتَ فِي المِيقَاتِ ؟ ( مَاذًا ، أَيْنَ )
 ٥. شَوْطًا طَفْتَ ؟ ( لِمَاذًا ، كُمْ )

# السُّوَّالُ الثَّاتِي : رَبِّبِ الكَلِمَاتِ لِتُصْبِحَ جُمْلَةً. (٥)

الخُرُوج، أَيْنَ، تَأْشِيرَةً
 سَعِيد، إِنْدُونِيسِيَا، مِنْ
 كَشْمِيرِي، أَنَّا، لَا
 إلازيارَةِ، قَادِم، أَنَّا
 سَأَقِيم، فَنْدُق، فِي، قَريبٍ

# السُوَّالُ الشَّالِثُ: أَكْمِلُ الْحِوَارَ. (٥)

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ط ـ ٢: بِالطَّاتِرَةِ السُّعُودِيَّةِ.
ط ٢: فِي الثَّامِثَةِ مَسَاءً.

### السُّؤَالُ الرابعُ :صِلْ بَيْنَ السُّؤَالِ وَالجَوَابِ. (٥)

ا. غَنْمَنَهُ أَيَّامٍ .	١ ـ أَيْنَ التَّذَاكِرُ؟
ب. سَيْعَةُ أَشْوَاطٍ .	٧. مَاذًا فِي الْحَقِيقَةِ؟
ج. هَذِهِ هِيَ التَّذَاكِرُ.	٣. مَتَى الْغُطَلَةُ؟
د. فِي الْحَقِيبَةِ تَذَاكِرُ.	4. كُمْ يَوْمًا سَنَتْقِيمُ هُنَا؟
ه . فِي شَهْرِ رَمَضَان.	٥. كم شوطاً طَفَتُ؟
00 - MO	

# السُوَّالُ الخامس: ضَغ عَلَامَةً (X) عَلَى الكَلِمَةِ الغَرِيبَةِ .(٥)

- ١. انف، استنان، اذن، زُجُامَ
- ٢. المُعَرُّمُ، صَفْرٌ، شَهْرٌ، رَجَبٌ
  - ٣. الأول، تمنغون، منة، ألف
  - ٤. السُّفَّرُ، البَحْرُ، البَرُ، الجَوُ
- ه. أهْلُ، أصندقاءُ، مَثَاحِفُ، فُقْرَاءُ

## السُوالُ السادسُ : رَبِّبِ الشُّهُورَ العَرَبِيَّةَ. (٥)

ذُو الحِجَّةِ، رَمَضَانُ، رَبِيعُ الآخِرِ، شَوَّالُ، جُمَادَى الأُولَى، صَفَرَّ، شَغَيَان، رَجَبٌ، رَبِيعُ الأَوْلِ، جُمَادَى الآخِرَةِ، ذُو القَعْدَةِ، المُحَرَّمُ

# السوال السابع: تَرْجِمُ الجُمَلَ الْآتِيَة إِلَى اللَّغَة الأردية. (١٠)

النَّفْسُ الإنسَانِيَّةُ ثَمَلُ مِنَ الجَدِ وَالعَمَلِ، وَيَدْخُلُهَا السَّامُ مِنْ كَثْرَةِ العَمَلِ؛ لِذُلِكَ تَجِيزُ تَعَلِيمُ الإسْلَامِ لِلْإَسْانِ أَنْ يَرَوَحَ عَنْ نَفْسِهِ، مِنْ وَقْتِ لَآخَرُ بِاللَّهُو المباح، وَيُمَارِسُ مِنَ الأَسْطِةِ التَّرْوِيجِيَّةِ المباحَةِ مَا يَعُودُ عَلَيْهُ بِالْقُوانِدِ الجِسْنِيَّةِ وَالرُّوجِيَّةِ وَالرُّوجِيَّةِ وَالرَّوجِيَّةِ وَالرَّوجِيَّةِ مَا يَتُغِقُ مَعَ وَيُجَدِّدُ نَشْنَاطُهُ فِي الْحَيَاةِ وَيَدْفُعُهُ إِلَى مَرْيدٍ مِنَ العَمَلِ وَالعِبَادَةِ. وَأَجَازَ الإسْلَامُ مِنَ الأَشْطِةِ التَّرُويِحِيَّةِ مَا يَتُغِقُ مَعَ وَيُحَدِّدُ نَشْنَاطُهُ فِي الْحَيَاةِ وَيَدْفُعُهُ إِلَى مَرْيدٍ مِنَ العَمَلِ وَالعِبَادَةِ. وَأَخَارَ الإسْلَامُ مِنَ الأَنْشِطَةِ التَّرُويِحِيَّةٍ مَا يَتَغِقُ مَعَ قَيْمِهِ وَأَخَالِهِ وَادَابِهِ.

# السُوَّالُ الثَّامِنُ : أَجِبُ عَنْ الْأَسْئِلَةِ التَّالِيَةِ - (١٠)

- ١ . لِمَاذًا يُمَارِسُ النَّاسُ بَعْضَ الأَنْشِطَةِ؟
  - ٢ . مَتَى يَطَلُبُ النَّاسُ النَّرُويِحُ؟
    - ٣ . مَا ٱلْهَدِفُ مِنَ الثَّرُوبِحِ؟
- ٤ . مَنْ الْطَالِبُ الَّذِي يَخْتَاجُ إِلَى تَزويح؟
  - ٥ . إِلَى أَيَ شَنَيْءِ يَدْعُو الإِسْلَامُ؟

السُّوَّالُ التَّاسِعُ : أَكْتُبُ عَشْرَ جُمَلٍ حَوْلَ الْمَوْضُوعِ 'التَّرْوِيحِ عَنْ النَّفْسِ ' أو '' الحَيَاةُ فِي ٱلْمَدِينَةِ". (١٠)

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Business Communication Course Code: BSC-111 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

Roll No.

- I. Para Language Communication.
- Physical Barrier of Listening.
- III. Enlist Components of Communication.
- IV. Decoding and Encoding in the Communication Process.
- V. Organizational Culture.
- VI. Haptic Communication.

#### **Answer the following questions**

- Q.No.2: What is electronic communication? Please explain in detail its types.
- Q.No.3: Communication is the lifeblood of an Organization. Explain this statement.
- Q.No.4: Write a Sales Letter of your own choice and highlight the important points of the letter.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Quantitative Methods - II Course Code: BSC-112

Time: 3 Hrs.

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

- Q.1. Differentiate the following with the help of examples. (5x6=30)
- Primary and Secondary Data
- ii) Correlation and Regression
- iii) Binomial Probability Distribution and Hypergeometric Probability Distribution
- iv) Standard Deviation and Standard Error
- v) Sampling with Replacement and Sampling without Replacement

#### Answer the following questions. Use of Scientific Calculator and the Statistical (5x6=30)Tables is allowed.

Q2. A study investigates whether household income level (high or low) is associated with renewable energy adoption (adopted or not adopted). The observed data from 500 households are given in the following 2x2 contingency table:

Income Level	Renewable Energy			
Income Level	Adopted	Not Adopted		
High	150	50		
Low	100	200		

At the  $\alpha = 0.05$  significance level, test whether income level and renewable energy adoption are associated?

Q3. The following table records the daily exercise time (X; in minutes) and calories burned (Y) for 10 individuals.

Exercise Time (X)	20	30	40	50	60	70	80	90	100	110
Calories Burned (Y)	80	110	150	190	220	270	300	340	380	400

- a) Compute the Pearson's Correlation Coefficient between Exercise Time and the Calories Burned.
- Estimate a Simple Linear Regression Model that predicts the Calories Burned from the Exercise Time.
- Q4. A company advertises that food preparation time can be significantly reduced with the Handy Dandy Slicer. A sample of 12 individuals prepared the ingredients for a meal with and without the slicer. You are given the preparation times below. Test the company claim by assuming that the difference between two timings does not follow a normal distribution.

	Person	1	2	3	4	5	6	7	8	9	10	11	12
Preparation	With Slicer	20	12	20	14	19	20	19	15	22		21	23
Times	Without Slicer	22	18	18	22	-	21		12	18	-	26	20

Q5. Compute the following weighted Price Index Numbers for 2020 from the following data:

984	20	10	2020			
Commodity/Year	Price	Qty.	Price	Qty. 150		
A	600	100	1200			
В	400	80	700	100		
С	180	60	430	70		
D	450	30	360	30		

- Laspeyre' Index Number ii) Paasche's Index Number iii) Fisher's Ideal Index Number.
- Q6. The following are the annual returns (%) on two different investment plans:

Real Estate	10.2	11.5	15.0	8.7	13.5	14.0	15.5	20.5	12.5	14.5
Stock Exchange	2.5	8.5	30.5	10.5	17.5	6.5	1.5	15.0	10.0	5.0

a) Which plan is better as an average return? b) Which plan is consistent with respect to return?

<u>a</u>

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

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Paper: Microeconomics Course Code: BSC-113 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- i. Define price elasticity of demand. How is it calculated?
- ii. State and explain the stages of the law of variable proportions.?
- iii. Differentiate between explicit cost and implicit cost.?
- iv. What is market equilibrium? Explain with a diagram?
- v. Differentiate between monopoly and monopolistic competition.
- vi. What is factor pricing? Why is it important in economics?

Answer the following questions.

- Q2. What is the budget line? How do changes in income and prices affect the budget line? Explain with diagrams.?
- Q3. Explain the Marginal Productivity Theory of factor pricing. How does it determine the wage rate?
- Q4. Discuss the determination of price and output under perfect competition in the short run. Use diagrams to illustrate your answer.?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Financial Accounting – II Course Code: BSC-114 Time

•••••

Time: 3 Hrs. Marks: 60

Roll No.

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Write short note on the following.

(10x3=30)

- i. Is routine maintenance of equipment a capital or revenue expenditure?
- ii. How are capital expenditures treated in financial statements?
- iii. How are revenue expenditures recorded in the income statement?
- iv. Which type of assets are subject to depletion?
- v. How does amortization differ from depreciation?
- vi. What does aging accounts receivable mean?
- vii. What is the allowance method for bad debts?
- viii. What is bad debt expense?
- ix. Define and differentiate between capital and revenue expenditures.
- x. How is revenue expenditure classified in the financial statements, and what effect does it have on profitability?

#### Answer the following questions

(3x10=30)

Q. 2 Patel Traders uses the allowance method to estimate uncollectible accounts receivable. The company produced the following aging schedule for accounts receivable at year-end, December 31, 2024:

Age Groups	Accounts Receivable (Rs.)	Estimated % Uncollectible
0-30	450,000	2%
31-60	280,000	5%
61-90	120,000	15%
Over 90	50,000	25%

#### Instructions:

- a) Calculate the total estimated bad debts based on the above information.
- b) Prepare the year-end adjusting journal entry to record the bad debts using the aged uncollectible accounts receivable determined in (a). Assume the current balance in Allowance for Doubtful Accounts is a Rs. 10,000 debit.
- c) Of the above accounts, Rs. 12,000 is determined to be specifically uncollectible. Prepare the journal entry to write off the uncollectible account.
- d) The company collects Rs. 12,000 subsequently on a specific account that had previously been determined to be uncollectible in (c). Prepare the journal entry(ies) necessary to restore the account and record the cash collection.
- e) Comment on how your answers to (a)—(d) would change if Patel Traders used 4% of total accounts receivable, rather than aging the accounts receivable. What are the advantages to the company of aging accounts receivable rather than applying a percentage to total accounts receivable?

Q. 3 AA Enterprises is a partnership firm with a history of profitable operations. At the end of the current year, the capital accounts of the three partners and their agreed profit-sharing ratios are as follows:

Partner

Capital (Rs.)

Profit-Sharing Ratio

Partner	Capital (Rs.)	Pront
Shahzad	900,000	50%
Ali	600,000	30%
Ahmad	500,000	20%

It is agreed that a new partner, shahid will be admitted to the firm at this date.

Required:

For each of the following situations regarding the admission of shahid to the partnership, provide the necessary journal entry to record his admission.

- a. Shahid purchases one-half of Ali interest in the firm by paying him personally Rs. 400,000.
- b. Shahid buys a one-fourth interest in the firm for Rs. 560,000 by purchasing one-fourth of each of the three partners' present interest. Shahid pays the three individuals directly.
- c. Shahid invests Rs. 560,000 in the firm and receives a one-fourth interest in the capital and profits of the business. In addition to the journal entry to record shahid's admission, compute the equity interest received and determine if a bonus is given to either the old partners or Shahid.
- d. Shahid invests Rs. 500,000 in the firm and receives a one-fourth interest in the capital and profits of the business. In addition to the journal entry to record shahid's admission, compute the equity interest received and determine if a bonus is given to either the old partners or Shahid.
- O. 4 During a routine audit, the following errors were discovered in the books of accounts of the company:
- 1. Rs. 800 purchase of store supplies for cash was recorded as a purchase of office supplies for cash.
- Store supplies of Rs. 1000 were purchased on credit but were wrongly credited to the cash.
- The owner of the business, used a company check to pay a personal utility bill of Rs. 2,295. The
  payment had been recorded correctly but posted as a debit to Utilities Expense.
- Equipment of Rs. 1,500 purchased on credit, however, recorded as Rs. 15,000 in both accounts affected.
- A collection of Rs. 500 from credit customers was recorded as a debit to the Cash account and a credit to the Fees Earned account.
- 6. A Rs. 300 paid for the purchase of office equipment was not recorded in the books of accounts.
- A Rs. 10,000 paid rent for the month was correctly journalized but post as debit to rent expense account by Rs. 1,000; however cash account was correctly credited.
- Purchase of office equipment for Rs. 22,150 cash was posted as debit to office equipment by Rs. 22,150 and credit to the cash account by Rs. 22,105.
- The total of purchase journal Rs. 35,300, was carried forward as Rs. 33500.
- The cash account had been understated by Rs.18,000.

Requirement: Journalize the entries to rectify the above errors.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Business Management Course Code: BSC-115 Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

(6x5=30)Q.1. Answer the following short questions.

- I. Leadership.
- II. Organizing.
- III. Staffing.
- IV. Diversity.
- V. Organizational Culture.
- VI. Green Management.

Answer the following questions.

- Q.No.2: Write a detailed note on Organizational Structure and its types.
- Q.No.3: Define the process of Controlling? Explain the various Techniques of Controlling.
- Q.No.4: Define the process of change?. Explain the various reasons of resistance to change.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Course Code: BSC-116 Paper: Pakistan Studies Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

(5x6=30)

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

Two Nation Theory I.

Simon Commission II.

I\_ دو قوی نظریه II\_سائمن کمیشن

Pirpur Report III.

Bogra Formula IV.

8<sup>th</sup> Constitutional Amendment V.

۷- آٹھویں آئینی ترمیم

Answer the following questions

(2x15=30)

درج ذیل سوالات کے جوابات تحریر کریں۔

Q. No. 2. Explain the educational services of Sir Syed Ahmad Khan.

سرسیداحمد خان کی تغلیمی خدمات بیان کریں۔

Q. No. 3. Write a note on 1962 constitution.

1962 کے آئین پر نوٹ لکھیں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

**Paper: Communication Skills** Course Code: BSCS-103 Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Enlist the essential elements of a well-structured paragraph? i.

Pen down the steps to write an effective essay? ii.

What key information should be included in a professional CV? iii.

What techniques can help to improve concentration during study sessions? İ۷.

How can body language impact the effectiveness of a presentation? ٧.

What is the difference between narrative and argumentative essays? νi.

#### Answer the following questions Q.2.

(2x15=30)

Why are Minutes of Meetings important in an organization? Debate on it. i.

Discuss in detail the challenges that are commonly faced when translating from one ii. language to another?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Media Ethics and Laws Course Code: BSCS-104

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short explanations of the following.

(6x5=30)

سوال نمبر1: درج ذیل پر مخضر نوٹ تحریر کریں۔

A - Major Sources of Media Ethics in Pakistan

یا کتان میں میڈیا اخلاقیات کے اہم ذرائع

B - Media Regulation

مستربا كاضبابطه كارى نظام

C - PEMRA Ordinance

ييمرا آرڈیننس

D - Article 19 of UN Human Rights Charter

ا قوام متحدہ کے انسانی حقوق کے جار ٹر کا آر ٹیکل 19

E - Hutchinson Commission Report

بچنسن کمیشن کی ربورث

F - Internal Pressures on Media Practices

میڈیائے طرز عمل پر داخلی دیاؤ

Answer the following questions

(3x10=30)

درج ذیل سوالات کے جوابات تحریر کریں۔

A - What is meant by media regulation? Discuss the role of PEMRA as media regulator in Pakistan?

B - What are major principles of the Hutchinson Commission Report and their relevance to media ethics?

C - Discuss how media laws are affecting freedom of the media in Pakistan?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Study of Seerah of The Holy Prophet (PBUH)

Course Code: BSC-116 Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Answer the following short questions.

(15x2=30)

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

(1) قبل از اسلام ایرانی قوم کن چیزوں کی پرستش کرتی تھی؟

1. What things did Iranian people worship before the Islam?

(2) تبل از اسلام عربول كي العلاقي اوصاف تحرير يجيد (صرف عنوانات)

2. Describe the moral characteristics of pre-Islamic Arab. (Only titles)

(3) عرب کے قدیم ترین بتوں کے نام بیان کیجے۔

3. Enlist the names of oldest idols of Arab.

(4) حارازواج مطیم ات کے نام تح پر کیجے۔

4. Narrate the four names of Wives of Holy Prophet (SAW).

(5) حرب الفحارے كيام اوے؟

5. What is meant by Harb-ul-Fijar?

(6) پہلی وحی کے نزول کے بعد حضرت شدیجہ نے نبی ٹاٹیلیکٹ کو تسلی کن الفاظ میں دی؟

6. After the first revelation, what were the words of Hazrat Khadija (RA) to encourage Holy Prophet (SAW)?

(7) عام الحزن سے كيام او ي؟

7. What is meant by the Year of Sorrow?

(8) جمرت مبشه کی دووجومات تحریر کیجے۔

8. Narrate the two reasons for migration to Abyssinia?

(9) بیت عقبہ الاولی کے دواہم نکات کھے۔

Describe two important points of Bait-e-Uqba Oala.

(10) ججرت مدینہ میں ٹی ٹاٹیلینل کے ساتھی کون ہے صحالی تھے؟ نیز انھوں نے کس غار میں بناولی؟

10. Who was the companion of Holy Prophet (SAW) in migration to Madinah? Also in which cave they took

(11) وعوت نبوى النايقة على الم نكات كليم . (صرف عنوانات)

11. Write down the important points of preaching of Holy Prophet (SAW).

(12) یوم الفر قان کس غزوہ کو کہا جاتا ہے؟

12. Which battle is called Yum al-Fürgan?

(13) غزوہ سے کیام ادے؟ غزوات کی تعداد بیان کیجے۔

13. What is meant by Ghazawa? State the numbers of Ghazawat.

(14) عبد نبوی کے معاشی نظام کی دو خصوصات تح پر بیجے۔

14. Describe the two salient features of economic system of the era of Holy Prophet (SAW).

(15) سرة النبي عليد إلى الدوكت ك نام مع مصنفين كاسل حراى تحرير عجيد

15. Write down the two Urdu books with the names of authors on the topic of Secrat -un- Nabi (SAW).

#### Q.2. Answer the following questions

(2x15=30)

درج ذیل سوالات کے جوامات تحریر کریں۔

1: نی المالی کے علی حالات زندگی اجمالا بان سیجے۔

Briefly describes the Meccan life of Holy Prophet (SAW).

2: پہلی اور دوسری جمرت حبشہ کے واقعات تقصیلًا تحریر سیجے۔

2. Describe the happenings of the first and second migration of Abyssinia in detail

3: فنح مكركى وجوبات ، واقعات اور نتائج ير تفصيلًا بحث سيجير

3. Discuss the causes, events and consequences of conquer of Makkah in detail

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Arabic Language - I Course Code: BSIS-102 Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوانی کانی پر حل کریں۔

(6x5=30)

i. درج ذیل الفاظ میں سے اسم، فعل اور حرف کی نشان دہی کریں:

هُوَ، ضَرَبَ، بلدّ، مِنْ، يَذْهَبُ

- ii. اسم تکرہ اور اسم معرفہ میں کیافرق ہے؟ مثالوں کے ذریعے سے تحریر کریں۔
- iii. تعداد ظاہر کرنے کے لیے عربی میں اسم کی تین اقسام مثالوں کے ساتھ تحریر کریں۔
  - iv. مؤنث سائی ہے کیام اد ہے؟اس کی دومثالیں تحریر کریں۔
- ٧. جمله اسميه اور جمله فعليه كے در ميان فرق لكھيں اور جمله اسميه بنانے كے دو قاعدے لكھيں۔
  - vi. "دَخْلَ" ہے فعل ماضی معروف کی گردان تحریر کریں۔

درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ (3x10=30)

سوال نمبر 2: درج ذیل عبارت کاسلیس ار دومیں ترجمہ کریں۔

وَأَحْذَ إِبْرَاهِيمُ إِسْمَاعِيلُ مَعَهُ وَأَحْذَ سَكِّينًا، وَلَمَّا بَلَغَ إِبْرَاهِيهُ مِنْي، أَرَادَ أَنْ يَذْبَحَ إِسْمَاعِيلَ، وَاضْطَجَعَ إسْمَاعِيلُ عَلَى الْأَرْض، وَأَرَادَ إِبْرَاهِيم أَنْ يَذْبَحَ، فَوَضَعَ السِّتكِينَ عَلَى حُلْقُومِ إِسْمَاعِيلَ، وَلْكِنَّ الله يُحِبُّ أَنْ يَرَى هَلْ يَفْعَلُ خَلِيلُه مَا يَاْمُرُه، وَهَلْ يُحِبُّ اللهَ أَكْثَرَ أَمْ يُحِبُّ ابْنَهُ أَكْثَرَ، وَنَجَحَ إِبْرَاهِيمُ فِي الْإِمْتِحَانِ، فَأَرْسَلَ اللهُ جَبْرِيلَ بِكَبْشِ مِنَ الجُنَّةِ وَقَالَ: ''اذْبَخ هذَا وَلَا تَذْبَخ إِسْمَاعِيلَ'' وَأَحَبُّ اللهُ عَمَلَ إِبْرَاهِيمَ فَأَمَرَ الْمُسْلِمِينَ بِالذَّبْع في عِيدِ الْأَضْحٰي.

> درج ذیل جملوں کو درست مبتد اما خیر کے ذریعے مکمل کریں۔ سوال نمبر 3: (5x2=10)

> > 1. الدَّار ......1

2. .....كسلانة.

3. أنا ......

4. إن ..... مجتهد.

5. الفيل ..... ضخم.

"التحيه والتعارف" كے عنوان يرايك عربي حوار (مكالمه) تحرير كريں جو كم از كم دس جملوں يرمشمل ہو۔ سوال نمبر 4:

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: History and Authenticity of Hadith Course Code: BSIS-103

Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

(6x5=30)

سوال نمبر 1: درج ذیل سوالات کے مخضر جواب تح پر کریں۔ اركتب الموضوعات كي وضاحت كريں ۲۔ متشر قین کے حدیث پر دواعتر اضات لکھیں ۔ حامع تریذی کی دوشر وحات کے نام مع مولفین تحریر کریں ٣ ـ حدیث کی لغوی واصطلاحی تعریف کریں ۵۔ سنن ابن ماجہ کی دو خصوصیات تحریر کریں ۲۔ عبد صحابہ میں حدیث کے دو تح پر ی نسخوں کے نام لکھیں

(3x10=30)

سوال نمبر 2: درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ ا۔ حدیث کی ضرورت واہمیت کے عقلی و نقلی دلائل تحریر کر س ۲\_عبد تابعین میں تدوین حدیث پر نوٹ لکھیں سر جیت حدیث پر اعتراضات اور ان کے جوابات تحریر کریں

Paper: Punjabi Akhan ty Muhawray

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

Course Code: BSPB-201

درج ذیل سوالات کے مختصر جواب تح پر کریں۔ (6x5=30)1-أ كھان دى تعريف كرو-2 کلشے تے محاور ہے وچ کی فرق اے؟ 3\_''وب كواه ترج كها''و موضوع نول اليخ لفظال وج بيانو 4-"آبآبآب كرمويون بحرا فارسال كمر كالي ويمنهوم تے پچھوكرنون استے لفظان وچ لكھو-5\_ پنجالی زبان دے کلا کی شاعراں کول محاوریاں دی ورتوں بارے مختروث لکھو۔ 6 یحادریاں دی درتوں نال کلام وچ کیتبدیلی آندی اے؟

درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ (3x10=30)سوال نمبر2- پنجانی اکھاناں وچ رہتل دے کہرے کہر ے روپ بیان ہوندے نیں، وروا کرو۔ سوال نمبر 3\_ تقلے لکھے ہوئے محاور مال دامطلب لکھوائے مُملیاں وچ ورتوں کرو۔ راہ پُٹ مارن۔ ڈھائی اَ کھر پڑھن۔ دُوھ وچ اَ ک رَلاون۔ جند رُی بلکان ہوون۔ خون دے گھٹ پیون سوال نمبر 4۔ ڈاکٹر شہباز ملک ہوراں دی کتاب سانے کہندے نین موجب '' بھاء کس وگاڑیا؟ رات دیاں بھکھیاں'' وچ مت دیاں گلاں نوں تفصیلی بیان کرو۔

Paper: Punjabi Zuban o Adab da Taaruf

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کانی پر حل کریں۔

Course Code: BSPB-202

سوال نمبر 1: درج ذیل سوالات کے مخضر جواب تح پر کریں۔ (5x6=30)داستان تے ناول ویج مُدھلافرق کیہاہے؟ بولی ، دیہ تے ماہیا و چکار کیہ فرق اے؟ مختصر دسو۔ لوک گیتاں دی اک فتم شخصیٰ تے جانن یاؤ۔ iv - معزت سلطان با موموران وي وجيشبرت كيدا -؟ وُ وہنگھیاں شاماں کس دی تصنیف اے تے ایبدی صنف کیدا ہے؟

درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ (2x15=30)

> سوال2: بابا بلصے شاہ دی کافی '' اُٹھ جاگ گھراڑے مارنا ہیں'' دافکری تجویہ کرو۔ سوال 3: بیٹھ دتیاں صنفاں بارے تفصیل نال لکھو۔ غزل ۔ کیانی

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Prose Genres - Introduction and Understanding Course Code: BSU-103N Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کابی پر حل کریں۔

درج ذیل سوالات کے مختر جواب تح پر کریں۔ (6x5=30)1-روزناميد كے كہتے ہيں؟ اپنى پىند كے كى ايك روزنا مي كا تعارف كروائے۔ 2-كالم كى تعريف يجيه - نيركسي ايك اد لى كالم نگار كا تعارف لكھيه ـ 3-اد لى خطوط كى ابميت يرمخضرنوث لكھيـ 4-انثائيه كيے كتے ہيں -اردو كے كسى ايك معروف انثائية نگار كا تعارف كروائي \_ 5-افساند کے کہتے ہیں نیزایے پندیدہ کی ایک افسانے کا تعارف کروائے۔ 6- فاكدك كتير بي ؟ اين ينديده فاكر يمخقرنو ث لكهيه ـ

درج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ (3x10=30)1۔داستان کے کہتے ہیں؟اردوکی کی ایک داستان کا تفصیلی تعارف کروائے۔ 2-ناول اورافسانے میں کیافرق ہے؟ اپنے پندیدہ ناول کا کرواری جائزہ لیجے۔ 3-آب بیتی اورسوا مح عمری میں کیا فرق ہے؟ مثالوں سے وضاحت کریں۔

**Paper: Literary Terms** 

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Course Code: BSU-104N

Time: 3 Hrs. Marks: 60

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا بی پر حل کریں۔

سوال نمبر 1: درج ذيل ادبي اصطلاحات پر مخضر نوث لكھئے۔ (6x5=30)ابهام، آورد، نرسميت، خاراجيت، حقيقت نگاري، علامتيت

درج ذیل ادبی اصطلاحات پر مختصر نوٹ لکھئے۔ (3x10=30)اساطیر، نرحسیت، داخلیت

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Biochemistry - I Course Code: BT-102 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(15x2=30)

- 1. Define biochemistry and name two historical milestones in its development.
- List two hormones that regulate glycogen metabolism.
- Differentiate between amylose and amylopectin.
- 4. Why is cellulose indigestible by humans?
- 5. Explain the role of lipopolysaccharides in bacterial cell walls.
- 6. Differentiate between saturated and unsaturated fatty acids.
- 7. What is the function of liposomes in drug delivery?
- 8. Differentiate between amylose and amylopectin.
- 9. How many NADH molecules are produced per glucose in the Krebs cycle?
- 10. What is the significance of the pentose phosphate pathway in RBCs?
- 11. How does cyanide inhibit the electron transport chain?
- Describe the role of glycogen phosphorylase.
- 13. What causes medium-chain acyl-CoA dehydrogenase (MCAD) deficiency?
- 14. How do ketone bodies form during starvation?
- 15. Why is vitamin C essential for collagen synthesis?

#### Q.2. Answer the following questions.

(6x5=30)

- Compare the structure and function of triglycerides and phospholipids.
- 2. Glycolysis, Outline the pathway, highlighting regulatory steps and ATP yield.
- Compare the structure and biological roles of starch and chitin.
- 4. Explain beta-oxidation of palmitic acid (C16) and calculate net ATP yield.
- 5. How do glucagon and cortisol regulate blood glucose during fasting?
- 6. Explain chemiosmotic coupling and ATP synthesis.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Biosafety, Biosecurity and Bioethics Course Code: BT-104

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(5x6=30)

Explain the following terms:

(2x3=6)

- a. Bioethics
- b. GMOs
- ii. What are genetically modified plants? Discuss how genetically modified plants can have impact on the environment?
- iii. Discuss the importance of personal protective equipments in laboratory settings.
- iv. How are regulatory bodies playing their role in ensuring adherence to bioethics principles in biomedical research?
- v. What emergency procedures can be taken to ensure biosafety if an accidental incident occurs in the laboratory?
- Q.2. Answer the following questions.

- Describe biosafety level 4 (BSL-4), its corresponding risk assessment and containment measures. Provide examples of pathogens that can be handled at this level.
- ii. Name different types of biohazards. What threats are posed by biohazards to the researchers working in a biomedical laboratory? What precautions can be taken by them?
- iii. What are the bioethical aspects of genetic engineering and medical genetics, and how can they be addressed?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Digital Logic Design Course Code: CC-110 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- a) Convert the equation  $(342)_x = (142)_8$  to decimal number system, and then find base x.
- b) Draw the diagram of XOR gate, and prove that  $x' \oplus y = x \oplus y' = (x \oplus y)'$
- c) Determine the truth table for F(A,B,C) = (A'+B). (A+C). (A'+B+C'). Also, express F as sum of minterms.
- d) Given the following output equations for half adder, and full adder. Transform the equations of full adder using the output equations of half adder.

$$S_h = X \oplus Y$$

$$C_h = XY$$

$$S_f = X'Y'Z + X'YZ' + XY'Z' + XYZ$$

$$C_f = X'YZ + XY'Z + XYZ' + XYZ$$

e) Obtain the simplified expression in SOP form for the following function using K-Map.

$$F(A,B,C,D) = A'B'D + AB'D + BC'D + BCD' + AC'$$

f) Implement  $F(A, B, C) = \sum (0, 2, 4, 5, 7)$  using 4x1 MUX. Keep two variables A and B as selection lines to the multiplexer. You must clearly label the diagram to get the full credit.

Answer the following questions.

(3x10=30)

#### Question#2:

Perform the following tasks for a Boolean function F(w,x,y,z) = (x'y+z)' + xyz + wy'z.

- a) Draw truth table.
- b) Express F as "sum of minterms" and "product of maxterms".
- c) Simplify F to minimum number of literals.
- d) Draw the logic circuit diagram of the simplified expression using NAND gates only.

#### Question#3:

Design a combinational circuit for a parking place that has four parking lanes (A, B, C, D) for parking four cars. Each parking lane may either be occupied (1) or available (0). The status of each parking lane is detected by a sensor, and it is fed to a combinational circuit that generates an output F, such that F = 1, if the count of available parking lanes is equal to or greater than the count of occupied parking lanes.

#### Question#4:

Draw the logic circuit diagram, characteristic table, excitation table of JK flip flop. Show step-by-step construction of 2-bit DOWN counter using JK flop flops.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Programming Fundamentals Course Code: CC-112N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(5x6=30)

- 1) Provide a brief description of each of the following, supported by an example:
  - A. What is a binary operator?
  - B. What is a posttest loop?
  - C. How would a static local variable be useful?
- 2) Write the output of each of the following programs:

Note: You may write the output as produced by either C or C++ — both are acceptable.

```
Program 1
```

```
bool s = true, t = true;
s = !s | !t;
s = s && t || s && !t;
t = !(s || t) && (s && t);
printf("%d \t %d \n", s, t); // OR: cout << s << "\t" << t << endl;
Program 2
for (int i = 0; i < 7; i++)
  if (i % 2 == 0)
      printf("%d \t", 2 * i - 1); // OR: cout << 2 * i - 1 << "\t";
  else if (i % 3 == 0)
                                   // OR: cout << i * i << "\t";
      printf("%d \t", i * i);
  else if (i % 5 == 0)
      printf("%d \t", i + 1);
                                   // OR: cout << i + 1 << "\t":
  else
      printf("%d \t", i);
                                     // OR: cout << i << "\t";
}
```

#### Q.2. Answer the following questions.

- Write a program that calculates the average score of a student for five exams, displaying the result in decimal notation with one decimal place. The program should prompt the user to enter the score (out of 100) for each exam.
- 2) The area of a parallelogram is the parallelogram's base times its height. Write a program that asks the user to enter the base and height of two parallelograms. The program should then determine and display which parallelogram has the greater area, or state if both areas are the same.
- 3) Write a program that calculates and displays a table showing the distance traveled by a river flowing at a rate of 2.3 meters per second. The table should include the distance traveled for each second up to 25 seconds.

AD (2 Years) & BS (4 Ye

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Paper: Computer Organization and Assembly Language

Course Code: CC-210 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(9x2=18 + 4x3=12)

- 1) Which component of the microprocessor performed the task of fetching the instruction from memory?
- 2) Which two operations are performed in the assembly Language "LOOP" instruction?
- 3) What is the minimum signed (negative) value stored in 8-bits (using 2's complement notation)?
- 4) What is the new value of register IP, after executing a 4-byte instruction residing at offset address 01E0
- 5) A memory has a physical address 4A37Bh. Compute the offset address if the segment number is 40FFh
- 6) Write an instruction to clear a register BX using an XOR logical instruction?
- 7) How does a signed value in the DX register multiply by 8, using a shift instruction?
- 8) Which stack operation is performed by the 'RET' instruction, used in Procedure?
- 9) What are the two operations, performed in the assembly Language stack instruction "PUSH source"?
- 10) What would be in BL and in carry flag after the execution of the last instruction "RCL BL,1" in the following code given below (STC instruction set the carry flag)?

STC

MOV BL,47H

RCL BL, I

11) Assume AX=7FFFh; BX=FFFFh; What will be in CX when the following code fragment terminates:

CMP AX, BX

JG aa

MOV CX,10

JMP exit

aa: MOV CX,20

exit: MOV AH,4Ch

INT 21h

12) Convert the following into Assembly Language Code (using conditional jumps)

(Suppose DL contains the ASCII code of a character.)

(IF DL>=" A") AND (DL<=" Z")

THEN

DISPLAY DL

**END-IF** 

13) What will be the values of the destination register 'CL' and flags (carry, zero, sign, overflow) after the execution of the given instruction? (Let all flags be set before the execution of this instruction)

SUB CL, 0B5H

where CL = 0A5H

#### Q.2. Answer the following questions.

(8+8+6+8=30)

 Write a program that prompts the user to enter a character, and on subsequent lines prints its ASCII code in binary and the number of 1 bits In Its ASCII code. (Hint: use shift/rotate instructions), Sample execution:

```
TYPE A CHARACTER: A
THE ASCII CODE OF A IN BINARY IS 010'00001
THE NUMBER OF I BITS IS
```

2) Assume SP=0100h before the start of the very first instruction "CALL 0107" in the following program. Give the Answers to the following questions:

E80400	CALL 0107
B44C	MOV AH, 4Ch
CD21	INT 21
50	PUSH AX
53	PUSH BX
DIE0	SHL AX,1
B0A1	MOV AL, A1
5B	POP BX
58	POP AX
C3	RET
	B44C CD21 50 53 DIE0 B0A1 5B 58

- i) What is the value of IP after the execution of instruction CALL 0107?
- ii) What would be in SP after the execution of the "CALL 0107" instruction?
- iii) What is in SP after the execution of the RET instruction?
- iv) What is in IP after the execution of the RET instruction?
- 3) What will be the values of registers CX, SI, DI and variable ARRAY2 after the execution of the given program? (Assume ARRAY1 is stored at address 0100)

```
ARRAY1 DB 35h,45h,25h,75h,50h,90h,50h,55h
ARRAY2 DB 8 DUP (0)
CODE
    MOV SI, OFFSET ARRAY1
   MOV DI, OFFSET ARRAY2
   MOV CX,08
LBL1:
    MOV AL,[SI]
    CMP AL, 40h
    JB LBL2
    ADD AL, 10h
LBL2:
    MOV [DI], AL
    INC SI
    INC DI
    DEC CX
    JNZ LBL1
```

- 4) The content of PC in the basic computer is 3AF (all numbers are in hexadecimal). The content of AC is 7EC3. The content of memory at address 3AF is 932E. The content of memory at address 32E is 09AC. The content of memory at address 9AC is 8B9F.
- i) What is the instruction that will be executed?
- ii) Give the contents of registers PC, AR, DR, AC, and IR in hexadecimal and the values of E, I, and the sequence counter SC in binary at the end of the instruction cycle.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Object Oriented Programming

Course Code: CC-211N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Answer the following short questions. Q.1.

(6x5=30)

- Explain how access specifiers (public, private, protected) in C++ support encapsulation.
- 2. When defining an array of class objects, how do you pass arguments to the constructor for each object in the array? Explain with an example.
- How can the compiler determine if a constructor is a copy constructor? Describe a situation where memberwise assignment is not desirable.
- Complete the following table by filling in private, protected, public, or inaccessible in the right column:

In a private base class, this base class MEMBER access specification	becomes this access specification in the derived class.		
Private			
Protected			
Public			

5. Determine the output of the following C++ programs. Make sure to indicate if any errors are present.

```
class A{
public:
      A(){ cout<<"1"; }
      ~A(){ cout<<"2";
};
int main(){
      A *a = new A[3];
      delete a;
}
```

6. Determine the output of the following C++ programs. Make sure to indicate if any errors are present.

```
. class Test{
   public:
     int x;
     Test(int x = 0) { this->x = x; }
     void change(Test *t) { t = this; }
     void print() { cout << x << endl; }</pre>
 };
 int main(){
     Test obj(5);
     Test *ptr = new Test (10);
     obj.change(ptr);
     obj.print();
     return 0;
 }
```

#### Answer the following questions.

- Design a C++ class hierarchy with a base class Shape and derived classes Circle and Rectangle. Include data members like radius for Circle and length and width for Rectangle. Include a virtual function calculateArea() in Shape class. Implement this function in the derived classes (Circle and Rectangle) to calculate and return their respective areas. Write a program that creates an array of Shape pointers, stores Circle and Rectangle objects, and uses polymorphism to call the correct calculateArea() function for each object.
- 2. Design a C++ class named as Counter. Overload the prefix ++ and postfix ++ operators to increment the counter value. Demonstrate the difference between prefix and postfix increment.
- 3. Write a C++ program to create a sequential file named "data.txt" and store student records (roll number, name, and marks) in it. Your program should allow the user to input a roll number, search for the corresponding record, and modify the student's marks.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Software Engineering Course Code: CC-212N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- 1. Define 'Software' in the context of "Software Engineering"?
- 2. Enlist the phases of "software requirement engineering"? Explain any two phases in details?
- 3. Define "software quality assurance" with example?
- Explain relationships of 'entity' with respect to "entity relationship diagram (ERD)"?
- 5. Explain relationships of use-cases with examples?
- 6. Explain Project's life cycle shortly?

Q.2. Answer the following questions.

- Explain "Agile team" in details with example?
- 2. What are the main heads to maintain use case description? Explain these in details?
- 3. Define "design pattern" with example? Explain one type of "design pattern" in details?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Computer Networks Course Code: CC-214N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- 1. What is HTTP and HTTPS? How do they differ in terms of security?
- 2. Define FTP. What is it used for?
- 3. What is the function of a firewall in a network?
- 4. Explain what is meant by network congestion.
- 5. What are wireless communication standards (e.g., Wi-Fi, Bluetooth)?
- 6. Define and differentiate between unicast, multicast, and broadcast.

Answer the following questions.

(3x10=30)

#### Question#2.

Explain the TCP/IP model in detail. Compare it with the OSI model.

#### Question#3.

Describe the concept of VPN (Virtual Private Network) and how it ensures secure communication.

#### Question#4.

Analyze the impact of network protocols on communication efficiency and reliability.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Database Systems Course Code: CC-215N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- a) Discuss the major factors behind the disadvantages of file processing system.
- b) Briefly explain the difference between logical data independence and logical data independence.
- Explain surrogate key, candidate keys and secondary keys with help of examples.
- d) Briefly explain data integrity, entity integrity, and referential integrity.
- e) Explain the lost update problem, and dirty read problem of concurrent transactions.
- f) Explain the difference between join operation and subquery with the help of an example.

Answer the following questions.

(3x10=30)

#### Question#2: Draw ER diagram of the following system:

A hospital keeps information of patients, physicians and hospital rooms. The hospital maintains the medical history of every patient. Some patients are resident patients (they spend at least one night in the hospital) and others are outpatients (they are treated and released). Resident patients are assigned to a room. Each room is identified by a room number. The system also stores the room type (private or semiprivate) and room fee. Over time, each room will have many patients who stay in it. Each resident patient will stay in only one room. Every room must have had a patient, and every resident patient must have a room.

Attributes of PHYSICIAN include Physician ID (the identifier) and Specialty. A patient is admitted in the hospital by exactly one physician called admitting physician. A physician may admit any number of patients. Once admitted, a given patient is treated by one or more physician. A particular physician may treat any number of patients. Whenever a patient is treated by a physician, the hospital maintains the details of the treatment such as treatment date, prescription, the advised lab tests etc.

#### Question#3:

Normalize the following PROJECT relation up to 3NF. You must specify the definition of the normal form and set of relations obtained after each Normal form.

PR#, PNAME, BUDGET, STARTDATE (SD), PROJMGR (PM), EMPNO, ENAME, SAL, DEPTNO, DEPTNAME, HOURS, RATING

- Each project has a unique number identified by PR#.
- Each project has one manager specified by PROJMGR (PM).
- One employee can work on many projects and vice versa.
- HOURS describes the no. of hours per week that a particular employee is assigned to work on a
  particular project.
- RATING shows the performance of an employee on a given project.

#### Question # 4

a) Create the following tables for a Sales Invoice.

Table Name: Invoice			
Col Name	Data Type	Constraints	
invoice#	NUMBER(5)	Primary Key	
inv_date	DATE	DEFAULT sysdate	
cust_name	NUMBER(5)	Foreign Key references Customer	
payment	CHAR(12)	Cash, Cheque, Credit Card	

(5)

Table Name: invoice_details			
Col Name	Data Type	Constraints	
invoice#	NUMBER(5)	Primary Key, Foreign Key references Invoice	
prod#	NUMBER(5)	Primary Key	
qty_ordered	NUMBER(4)		
price	NUMBER(5)	Above 5	

b) Write the following queries using the above tables:

i. List all the products whose price is between 100 and 500. (1)
 ii. Write a query to display invoice#, inv\_date, s\_inv\_total, and cust\_name. The attribute s\_inv\_total is a derived attribute. (2)

iii. Find the name of the most expensive product. (2)

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Paper: Physical Chemistry-II (Thermodynamics)

Course Code: CHEM-103N

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- Write down the Stirling approximation. Also, mention its importance?
- II. Write down three entropy properties and what is the effect of temperature on entropy change.
- III. Give a mathematical relation between Gibbs energy, entropy and enthalpy of the process?
- IV. Differentiate between Classical and Statistical Thermodynamics with an example?
- v. What is relationship between the standard free energy and the equilibrium constant?
- Explain the third law of thermodynamics and explain its relation with entropy.

Answer the following questions.

- Q.2: Derive the Vant's Hoff equation and what is its importance
- Q.3: Derive the expression for the Sterling approximation?
- Q.4 (a): Prove that Q = Qt.Qr.Qv.Qe
- (b): Describe and derive the Clausius-Clapeyron equation

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Course Code: CHEM-131 Paper: Basic Organic Chemistry

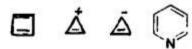
Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1.	Answer	the	following	short	questions.
<b>—</b> :	,				40.00

(15x2=30)

- i. Why alkyl amines are more basic than ammonia?
- ii. What is meant by steric inhibition of resonance?
- Why tertiary carbocations are more stable than secondary and primary carbocations? iii.
- iv. What is the difference between tautomerism and resonance?
- How alkanes are prepared from ketone? ٧.
- vi. Classify the following compounds as aromatic and anti-aromatic:



- vii. Give the major product of reaction of 1-butene with HBr in the presence of peroxide.
- viii. Differentiate between inductive and resonance effect.
- ix. What is the criteria for aromaticity?
- Breifly explain simmon smith reaction? X.
- xi. Trichloroacetic acid is more acidic or triflouroacetic acid. Justify.
- xii. Why halogens are deactivating but ortho-para directing groups?
- Nitration of phenol is 103 times faster than benzene. Explain. xiii.
- xiv. N, N-dimethylaniline is less basic then 2,6,N,N-tetramethylaniline, Justify.
- Why carboxylate ion is more stable than alkoxide ion? XV.

### Answer the following questions.

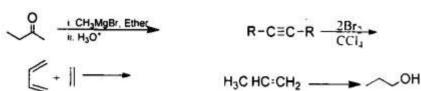
- Q.2 (a) Write down the preparation of phenol from any two routes? (5)
  - (b) Write a note on hydrogen bonding and its effect on various properties of organic compounds. (5)
- Q.3 (a) Differentiate between hyper conjugation and inductive effect?

Draw all the hyperconjugating structures of tertiary carbocation. (5)

(b) What is nucleophilic substitution reaction?

Discuss unimolecular substitution reaction in detail. (5)

Q.4 Complete the following reaction with mechanisms? (2.5x4)



AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

**Paper: Intermediate Macroeconomics** 

Course Code: ECON-206N

Time: 3 Hrs. Marks: 60

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Answer the following short questions. Q.1.

(6x5=30)

- i. Explain the difference between Exogenous and Endogenous variables with examples.
- ii. Discuss the Tobin's Q Theory of Investment.
- iii. What is the Relative Income Hypothesis and how does it differ from the Absolute version?
- iv. Explain Autonomous and Induced Investment with examples.
- Explain the concept of Money Multiplier and its role in the banking system. v.
- vi. Define and differentiate between Marginal and Average Propensity to Consume.

#### Answer the following questions.

- i. Discuss the causes and types of inflation. Evaluate the monetary vs. structural approaches to inflation control.
- ii. Discuss the different types of unemployment and their causes, with special reference to Pakistan.
- iii. Discuss the Quantity Theory of Money. Compare it with the Liquidity Preference and Portfolio Balance approaches.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Islamic Economics Course Code: ECON-208N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- i. Illustrate the theoretical contribution of Ibn-e-Khuldun in Islamic economics.
- ii. Discuss the concept of insurance in Islam.
- iii. What is the significance of 'litihad' in Islam?
- iv. Discuss different aspects of hoarding in Islam.
- v. Define the concept of "Bai Salam".
- vi. Discuss the role of state in an Islamic economy.

#### Q.2. Answer the following questions.

- Define Islamic economics, Illustrate different sources of Islamic economics.
- Write down different measures taken by a Muslim state against the accumulation of personal wealth.
- iii. Define "Makaas" and "Al-Makaas" in Islamic taxation system and also write down some Islamic canons of taxation.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Classical Poetry Course Code: ELL-103

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- 1) What is the main contention of Paradise Lost book 9?
- 2) Which religious reference does Donne use in "The Good Morrow"?
- 3) What is John Donne's main contention in the Holy Sonnet "Thou Hast Made Me, and Shall Thy Work Decay"?
- 4) What are some of the impossibilities Donne mentions in the beginning of "Song: Go and Catch a Falling Star"?
- 5) How does Shakespeare make a comparison with a summer's day in Sonnet 18?
- 6) What is a Mock Epic?
- Q.2. Answer the following questions.

- 1) Discuss Epic characteristics in Milton's Paradise Lost Book 1.
- 2) How does Pope critique aristocracy in Rape of the Lock?
- Critically analyze John Donne's poem, "Valediction: Forbidding Mourning".

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Introduction to Linguistics Course Code: ELL-202

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- i. Explain the difference between phoneme and allophone with the help of example.
- ii. What is the difference between language acquisition and language learning?
- What is affixation? Provide at least two examples.
- iv. Write the difference between monothong and diphthong. Give examples.
- v. What are diachronic and synchronic linguistics?
- vi. What are dependent and independent clauses?
- Q.2. Answer the following questions.

- What are the places of articulation? Support your answer with examples.
- What is a morpheme? Explain inflectional and derivational morphemes with the help of examples.
- iii. Write a short note on the importance of linguistics.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

**Paper: Civics and Community Engagement** 

Course Code: GCCE-101 Time: 3 Hrs. Marks: 60

Roll No. .....

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Define the following:

(6x5=30)

- 1. Define digital citizenship.
- 2. What is the importance of peaceful dialogue in civic engagement?
- 3. Name any two components of social justice.
- 4. What is advocacy?
- 5. Write two civic duties of a responsible citizen.
- 6. Define civic engagement.

#### Q.2. Answer the following questions:

- 1. Explain the fundamental rights and liberties provided in the Constitution of Pakistan 1973.
- 2. Discuss the concept and significance of community engagement for social harmony.
- 3. Explain how digital platforms promote civic engagement, along with their ethical challenges.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Discrete Structures Course Code: GE-167

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Answer the following short questions.

(6x5=30)

- 1. How many different license plates can be made if each plate contains a sequence of three uppercase English letters followed by three digits (and no sequences of letters are prohibited, even if they are obscene)?
- 2. What is the difference between Influence Graphs and Collaboration Graphs?
- 3. Suppose that the function f from A to B is a one-to-one correspondence. Let R be the relation that equals the graph of f. That is,  $R = \{(a, f(a)) \mid a \in A\}$ . What is the inverse relation  $R^{-1}$ ?
- 4. Find the integer a such that

$$a \equiv 99 \pmod{41} \text{ and } 100 \leq a \leq 140.$$

- 5. What is the Cartesian product  $A \times B \times C$ , where  $A = \{0, 1\}$ ,  $B = \{1, 2\}$ , and  $C = \{0, 1, 2\}$ ?
- 6. Evaluate the following summation:

$$\sum_{i=1}^4 \sum_{j=1}^3 ij$$

Answer the following questions.

(3x10=30)

Question 2. For which values of n do these graphs have an Euler circuit? Explain your answer.

- a) K,
- b) C<sub>n</sub>
- c)  $W_n$
- d)  $Q_n$

Question 3. Translate each of these statements into logical expressions in three different ways by varying the domain and by using predicates with one and with two variables.

- a) Someone in your school has visited Uzbekistan.
- Everyone in your class has studied calculus and C++.
- c) No one in your school owns both a bicycle and a motorcycle.
- d) There is a person in your school who is not happy.
- e) Everyone in your school was born in the twentieth century.

Question 4. a) Prove that if n is a positive integer, then n is even if and only if 7n + 4 is even.

b) Determine whether each of these functions is a bijection from R to R.

i. 
$$f(x) = -3x^2 + 7$$

ii. 
$$f(x) = x^5 + 1$$

AD (2 Years) & B

**Paper: Expository Writing** 

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Course Code: GENG-201

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

- i. Why is it important to use simple and precise language?
- ii. How do visuals or examples help engage a specific audience?
- iii. How can a writer maintain integrity in their work?
- iv. How can you make an introduction clear and engaging?
- v. How can plagiarism affect the credibility of your writing?
- vi. How can setting goals improve your writing process?

#### Answer the following questions.

- Q2. What strategies can a writer use in the introduction to engage the reader's interest without inserting personal opinions or arguments?
- Q3. Why is it important for writers to maintain honesty and accuracy when presenting information in expository writing, and what are the consequences of failing to do so?
- Q4. What strategies can writers use during the revising stage to improve the content, structure, and clarity of their writing, and how does this step enhance the overall quality of the text?

Paper: Entrepreneurship

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Course Code: GENT-101

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- a: What is the difference between an entrepreneur and businessman?
- b: Why is resilience important for entrepreneurs?
- c; What is a SWOT analysis?
- d:What is market segmentation?
- e: why is cash flow important for a business?
- f:What is conflict resolution in a team?

Q.2. Answer the following questions.

- a: Define entrepreneurship. Write down its key concepts.
- b:What is Branding? Elaborate its importance in business.
- c:Write a detailed note on the concepts of assets and liabilities in finance.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Course Code: GEOG-103

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(15x2=30)

Enlist major types of rock?

Paper: Introduction to Physical Geography

- ii. Explain Big Bang Theory?
- iii. Differentiate between endogenic and exogenic processes?
- iv. Define neap tides?
- v. Explain temperature inversion?
- vi. Explain the difference between the star and moon?
- vii. Define volcanic activity?
- viii. What is the economic importance of Atlantic Ocean?
- ix. Explain the role of ozone layer?
- x. What is air masses?
- xi. Differentiate between rotation and revolution?
- xii. What are arenaceous rocks?
- xiii. Define evaporation?
- xiv. Explain Ocean salinity?
- xv. Enlist different layers of atmosphere?

Answer the following questions.

- Q2: Define Rock? Explain different types of Rocks?
- Q3: Explain the structure of atmosphere with the help of diagram?
- Q4: Explain the configuration of ocean floor with the help of diagram?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: GEOG-104N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(15x2=30)

Define Cartography.

Paper: Introduction to Cartography

- ii. Give two examples of Datum.
- iii. What is the difference between a coordinate system and a reference system?
- Name principles of map design.
- v. What is proofing in map production?
- vi. Define Hue.
- vii. Write two advantages of Cartographic symbology.
- viii. What do you know about typography?
- ix. List the principles of symbolization.
- x. How are the ellipsoidal and geoidal Earth different?
- xi. What is map scale?
- xii. What is the chromatic model?
- xiii. List types of maps.
- xiv. Give two examples of thematic maps.
- xv. What is texture in maps?

Answer the following questions.

- Q.2. Describe in detail the relationship between Cartography and Geography, and how the nature and scope of cartography have been modified over the years.
- Q.3. Discuss cartographic symbols and their importance in detail..
- Q.4. Explain the importance of cognitive, social, and ethical issues in Cartography.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Ethics (For Non-Muslims) **Course Code: GETH-101** Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Answer the following questions in detail.

(6x10=60)

درج ذیل سوالات کے تفصیلی جواب دیں۔

- 1. What is the role of Ethics in individual life?
- Mention five good Ethics.
- 3. What are the Ethical values in Christianity?
- 4. Describe the importance of Justice in Islam.
- 5. Write a note on the concept of virtue and evil.
- 6. What do you know about the concept of "Falah"

ا۔ انفرادی زندگی میں اخلاقیات کا کیا کر دارہے؟ ٢ ـ اخلاقيات من سے يانچ اچھى اخلاقيات كى وضاحت يججر ــ ٣ عيمائيت مين اخلاقي اقدار كيابين؟ ٣ ـ اسلام مين "انصاف" كى ابميت واضح كيجيّـ

۵۔ اچھالی اور برائی کے تصور پر مضمون لکھے۔

٢\_ تصور " فلاح " ك بارك ين آب كيا جائ ين؟

Paper: Guru Granth Sahib Ji

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Course Code: GG-001 (RE-CONDUCT) Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

سوال نمبر 1: درج ذیل سوالات کے مخضر جواب تحریر کریں۔ (6x5=30)

> 1: ونڈ چھکنا (تقسیم کر کے کھانا) کو گوریانی کی روشنی میں بیان کریں۔ 2: گورونانک صاحب کے "بابر بانی" کے کسی ایک شید کو تحریر کریں۔ 3:رہت مریادہ کے مطابق چار گر ہیوں کے نام تحریر کریں۔ 4: اکال تخت صاحب کہاں واقع ہے۔ مختفر بیان کریں۔ 5: نکانہ صاحب میں گورونانک صاحب کے استھانوں کے نام تحریر کریں۔ 6: بي بي ناځى كا جنم كهال ہواہے؟ نوث تكھيں۔

(3x10=30)

> 1: گورو گرنته صاحب جی کی پہلی یو ژی اور اس کا ترجمہ تحریر کریں۔ 2: سکھ دهرم ميں يانچ بانيوں كى كياا بميت ہے ؟ نوث لكھيں۔ 3: سکھ مذہب کی فلاسفی کواینے الفاظ میں بیان کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Ideology and Constitution of Pakistan

Course Code: GICP-101

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Write short note on the following.

i. Sir Sayid Ahmad Khan

i- سرسيداحمد خان

ii. Partition of Bengal 1905

ii. تقسيم بنكال 1905

iii. Objectives Resolution 1949

iii. قرار داد مقاصد 1949

One Unit iv.

What is Constitution? v.

٧. آئين کياہ؟

Answer the following questions in detail.

(2x15=30)

درج ذیل سوالات کے تفصیلی جواب دیں۔

Q. No. 2. Discuss the Role of women in the Pakistan Movement.

سوال نمبر2\_ تحريك ياكتان مي خواتين كي كردار پر بحث كري-

Q. No. 3. Explain the impacts of 18th Constitutional amendment, on the federation of Pakistan.

سوال نمبر 3۔ اٹھارویں آئینی ترمیم کے وفاق پاکستان پر اثرات کی وضاحت کریں۔

AD (2Years) & BS (4Years) Degree Program/Second Semester-Spring 2025 Roll No. .....

Paper: Islamic Studies / Ethics (For Non-Muslims)

Course Code: GISL-101

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس يرچه كومهيا كى گئىجواني كاني پر حل كريں۔

Q.1. Answer the following short questions: (6x5=30)

a) Describe three virtues of the Holy Quran.

الف۔ قرآن مجیدے تین فضائل بیان کریں۔

b) Write a blessed hadith with translation on protection of hadith.

ب۔ حفاظت حدیث پر ایک حدیث مبار کہ مع ترجمہ تحریر کریں۔

c) Which person is said to be poor in the hadith.

ج۔ حدیث میں غریب س فخص کو کہا گیاہے؟

d) Write the names of the Prophet's (ﷺ) daughters.

د۔ نی کریم مُثَاثِثُم کی بیٹیوں کے نام لکھے۔

e) When did the Battle of Uhud take place and explain two reasons for it?

ھ۔ غزوہ احد کب چیش آیا اور اس کے دواساب بیان کریں؟

Write only the names of the five main sources of Islamic jurisprudence.

و۔ فقہ اسلامی کے ہانچ ماخذ کے صرف نام تحریر کریں۔

ورج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ ورج ذیل سوالات کے تفصیلی جواب تحریر کریں۔ Q. No.2: Give translation and explanation of the following Ahadith. (6+4=10) سوال نمبر 2: درج ذیل حدیث کاتر جمه و تشریح میجید - (10=4+6) نوث: (ترجمه کے "6" اور تشریح کے "4" نمبرین) عَنْ أَبِي سَعِدٍ، عَنِ النَّبِيّ صَلِّي اللهُ عَلَيْهُ وَسَلَّمَ قَالَ: «التَّاجِرُ الصَّدُوقُ الْأَمِينُ مَعَ النَّبِيَينَ وَالصَّدِيقِينَ وَالسُّلُهَدَاءِ-

O. No.3: Write a detailed note on the Caliph Hazrat Ali .

حنرت على الرتعني رضى الله عنه ير تغييلي نوث تحرير كرس- (10)

O. No.4: Write in detail on the status of woman in Islam.

سوال نمبر4: اسلام میں عورت کے مقام پر تفصیل سے تحریر کریں۔ (10)

**ETHICS (For Non-Muslim Candidates)** 

Note: Answer the following questions.

(3x20=60)

نوان: مندرجه ذیل سوالات کے جواب تحریر کیجے۔

O. 1. Explain the different concepts of Ethics (Ancient and Contemporary)

سوال نمبر ا ۔ اخلاقیات کے قدیم اور عصری تصورات کی وضاحت کریں۔

Q. 2. Explain the importance of Ethics in social life.

Q. 3. Compare the Ethical Teaching and values between Islam and Christianity.

سوال نمبر 3\_ سامام ادر عیسائیت کے در میان اخلاقی تعلیم اور اقد ار کاموازنه کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Quantitative Reasoning (I) Course Code: GQR-101 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions:

(6x5=30)

- (i) Distribute 28 rabbits among three friends in the ratio of 2:4:1.
- (ii) Verify associative law of intersection for the following sets:

$$A = \{1,2,3,...,10\}, B = \{2,3,5,7\}, C = \{4,6,8,9,10\}.$$

- (iii) If the purchase price of a basket is Rs. 300. Find the sale price if the shopkeeper takes 20% profit.
- (iv) Solve the following system of equations:

$$x + y = 5$$
$$4x + 3y = 18.$$

- (v) How many arrangements of the word PAKISTAN are made if all are taken together.
- (vi) Solve the quadratic equation  $-x^2 + 4x + 12 = 0$ .

#### Answer the following questions:

- Q. 2 Two dice are thrown twice. What is the probability that the sum of the dots shown in the first throws is 7 and that of the second throws is 11?
- Q. 3 Aslam started a business with Rs. 35000. After 3 months Akram joined the business with Rs. 4000 and after 6 months Asgher invested Rs. 5000. At the end of the year they earned a profit of Rs. 1620. Find the share of each in the profit.
- Q. 4 Define Hero's formula and by using it find the area of the triangle whose sides are 4cm, 5cm, 6cm. Also find the perimeter of this triangle.

A A

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

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Paper: Quantitative Reasoning - II Course Code: GQR-201 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(15x2=30)

Roll No.

- Determine with reasoning whether the sentence "The sun rises in the east" is a proposition or a non-proposition.
- ii) Are the following propositions logically equivalent?

Proposition 1:  $\forall x \in N, x^2 > x$ . Proposition 2:  $\forall x \in N, x > 1 \Rightarrow x^2 > x$ .

Explain why or why not?

iii) The statement "The government has introduced new traffic rules to improve road safety" is followed by two conclusions numbered I and II.

Conclusion I: Accidents will reduce due to stricter traffic rules.

Conclusion II: People will follow traffic rules out of fear of penalties.

Decide which of the given conclusions logically follow the statement and choose the appropriate answer:

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.
- iv) How do you determine whether a System of Linear Equations has a unique solution or infinitely many solutions?
- v) Explain the concept of the Slope of a Curve and how Derivatives are related to it.
- vi) What is the difference between Linear Decay and Exponential Decay?
- vii) Explain the characteristics of a Binomial Probability Experiment.
- viii) What are the key properties of the Correlation Coefficient?
- ix) Explain the concept of Regression Analysis and its importance.
- Explain the purpose of using the Chi-square Test of Independence.
- xi) A patient is diagnosed with a specific illness if:

p: "The patient has a fever"

q: "The patient has a sore throat".

Construct the Truth Table for the compound statement  $p \wedge q$ .

xii) Draw the possible inferences from the following premises through a Venn-diagram:

Premise 1: All apples are fruits. Premise 2: All fruits are healthy.

- xiii) What is Statistical Inference? Explain.
- xiv) What is Scatter Plot/Diagram? Explain.
- xv) What is System of Linear Equations?

Answer the following questions. Use of Scientific Calculator and the Statistical Tables is allowed.

Q2. A study investigates whether household income level (high or low) is associated with renewable (08) energy adoption (adopted or not adopted). The observed data from 500 households are given in the following 2x2 contingency table:

Income Level	Renewable Energy					
Income Level	Adopted	Not Adopted				
High	150	50				
Low	100	200				

At the  $\alpha = 0.05$  significance level, test whether income level and renewable energy adoption are associated?

Q3. The following table records the daily exercise time (X) and calories burned (Y) for 10 individuals. (10)

**Exercise Time** 110 60 70 80 90 100 20 30 40 50 (X: in minutes) 190 220 270 300 340 380 400 110 150 80 Calories Burned (Y)

- a) Compute the Pearson's Correlation Coefficient between Exercise Time and the Calories Burned.
- Estimate a Simple Linear Regression Model that predicts the Calories Burned from the Exercise Time.
- Q4. A social media influencer has 10,000 followers at the start of the year. His follower count grows exponentially at a rate of 15% per month. How many followers will he has at the end of 6 months?
- Q5. A population P(t) of a species is modeled by the function: (06)

$$P(t) = 1000 \, e^{0.05t}$$

where P(t) represents the population at time t in years.

- a) Find the rate of change of the population at any time t.
- b) What is the rate of change of the population after 10 years?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Course Code: GS-104N Paper: Socio-Cultural Aspects of Gender Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

$$(6x5=30)$$

What is the definition of culture? Difference in material and non-material culture.

2. How does society influence individual behavior?

3. What is the social construction of gender?

4. How do gender relations change in modern times?

5. What are the roles and responsibilities within a family?

6. How can education promote gender equality?

Answer the following questions Q.2.

$$(3x10=30)$$

 How do cultural norms and values shape individual behavior and societal structures? Provide examples from Pakistani society.

2. Discuss the major socio-cultural issues faced by Pakistan, such as poverty, illiteracy, and gender inequality.

3. How does patriarchy influence the social construction of gender, and what are its implications for women's empowerment

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Women's History in Pakistan Course Code: GS-105N

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Write short note on the following.

(5x6=30)

سوال نمبر 1: درج ذیل پر مختصر نوٹ تحریر کریں۔

i. Write a new few poets under Mughals rule.

i. مغلوں کے دور حکومت میں کچھ نامور شاعر ول کے نام تکسیں۔

ii. Who was Bi Amma

ii. بي امال كون خيس

iii. Who started the journal of Tazib-Niswan

iii. تهذیب عنوان رساله کس نے شر وع کما

iv. Comment on the service of Fatima Jinnah.

iv. فاطمه جناح کی خدمات پر تبعره کریں۔

Who wrote the book from Purdah to Parliament? ٧.

v. بردہ ٹو مار ٹیمنٹ کتاب س نے لکھی؟

Answer the following questions Q.2.

(2x15=30)

درج ذیل سوالات کے جوامات تح پر کریں۔

سوال نمبر2:

i. Discuss the struggle of women for their rights in colonial period in India.

i. ہندوستان میں برطانوی حکومت میں عور تول نے اسے حقوق کے لئے جو جدوجہد کی اس پر بحث کریں۔

ii. Discuss family law ordinance of 1961 critically.

ii. مسلم فیلی لاء آرڈیننس 1961 پر تنقیدی بحث کریں۔

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: GSS-101

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- 1. What was the Scientific Revolution, and how did it shape social inquiry?
- 2. Define ideology and distinguish between capitalism and socialism.
- 3. Explain cultural integration.

**Paper: Introduction to Social Sciences** 

- 4. What is ecology in the context of society?
- 5. Define socialization of the individual.
- 6. Name two functions of education.

#### Q.2. Answer the following questions

- Define ideology and critically compare capitalism, socialism, and Islamic perspectives on social justice.
- Explain how geography, demography, and ecology interact to produce patterns of environmental change.
- Explain the functions and challenges of the education system in a rapidly changing society.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Paper: Holy Bible Course Code: HB-001 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### SECTION—I (20 marks)

Q1. Write short answers of the following questions (words should not exceed to 25):

مندرجہ ذیل سوالات کے مختم جواب تحریر کری (الفاظ ۲۵ سے زیادہ نہ ہوں)

1 What guided the Israelites during their journey?

امر ائیلیوں کی أیکے سفر کے دوران کس نے راہنمائی کی؟

2 What is the significance of the Passover?

مح کی کیااہمیت ہے؟

3 What is the central theme of Psalm 16?

زیور16 کی مرکزی تحال کیاہے؟

What is the Protoevangelium (Protoevangelion)?

يرونوالوا كليلي اون كما الي كمام ادري؟

5 Which term is used for first three gospels on the basis of their similarity?

مماثلت كى بنياد ير ملى تمن انا جل كے لئے كوئى اصطلاح استعال موتى بي ؟

6 What role did faith play in the Israelites' journey?

بني اسر ائتل كے سفر بيس ايمان كاكماكر وار تھا؟

7 What sound are produced by χ ξ ψ φ?

Φ ψ غ Xأردوما تحريزى ين كونى آوازى وثر كرنے يور؟

8 What is gamma(y)-nasal?

تاك ادابونے والا كالا (٧) عكام ادع؟

9 Which syllable is called ultima?

كس جع كوالشماكية إلى؟ مرف آخرى يزيركون سالجد آتاب؟

10 Which accent can be placed on last syllable?

#### SECTION-II (10+10=20 Marks)

Attempt any two questions from the following: at least کوئی ہے دوسوالات کے جواب تح پر کرین: کم از کم 150 الفاظ پر مشمثل جواب 150 words each. 5513

O2 How did Jesus challenge the traditions of Judaism?

يوع في كيم يودى دوايات كوچين كيا؟

O3 What role does the theme of forgiveness play in the Synoptic Gospels, and how does Jesus teach and demonstrate it?

بم آبك اناتيل من معانى كاموضوع كياكر دار اداكر تاب، اور خداوتد يموع اے کے عماتے اور ظاہر کرتے ہیں؟

Q4 Explain the following verse: Father, if thou be willing, remove this cup from me; nevertheless not my will, but thine, be done. Luke 22:42

دى كى آيت كى تشر ت كري: الماب اكر أوجاب توسيعاله مجع عد بالفاق مى ميري مرضى فيس بلكه تيري عي مرضى أوري بو- الأو 22:22)

O 5 Explain the following verse: Why do the nations rage, And the peoples meditate a vain thing? The kings of the earth set themselves, And the rulers take counsel together, Against Jehovah, and against his anointed, saying Let us break their bonds asunder,

دى كى آيت كى تشر ت كرس: اقويس كس العظيش بين إي اوراوك كيون ماطِل خیال بائد ہے ہیں؟ نخد او ند اور اُس کے مسیح کے خِلاف زمین کے بادشاہ صف آرائی کرے اور ماکم آئیں میں مشورہ کرے کہتے ہیں 3 آؤہم اُن کے

And cast away their cords from us. Psalm 2:1-2

بندهن توز واليس اورأن كى رتبال اسنة أويرسة أتار يهينكيس-زيور2:1-3

SECTION-III (10+10=20 Marks)

Attempt any two questions from the following: Q9 is compulsory.

کوئی ہے دوسوالات کے جواب تحریر کری بعدوال نمید 9 لازمی ہے.

Q 6 Write appropriate articles before the given nouns:

دیے محت اسموں سے پہلے یونانی کے آرفیکر تکسیں۔

O 7 Write all the endings/inflections of 2<sup>nd</sup> Declension Masculine Nouns in Koine Greek.

λογους, κορων, βιβλια, άνθρωπου, Ίησους.

Q 8 Conjugate the verb λυω in Future Indicative Active.

كوستغ يوناني مي دومرى اك كران فدكر اسامك تمام تصريفي لكعيس-

Q 9 Translate the following verses from Greek to English or Urdu:

بونانی فعل مان کانانه متعقبل کی ساری مرادن تحریر کری-درج ذیل آیات کالونانی سے الحریزی یا أردوش ترجمه كري-

Ιδού ή παρθένος εν γαστρὶ εξει καὶ τέξεται υίον, καὶ καλέσουσιν τὸ ὄνομα αὐτοῦ Έμμανουήλ.

καὶ φωνὴ ἐγένετο ἐκ τῶν οὐρανῶν· σὰ εἶ ὁ υίός μου ὁ ἀγαπητός, ἐν σοὶ εὐδόκησα.

3. φωνή βοώντος έν τῆ έρημω-έτοιμάσατε τὴν όδὸν χυρίου, εὐθείας ποιεῖτε τὰς τρίβους αὐτοῦ-

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Introduction to Art and Design – II Course Code: HEAD-104

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- 1. Discuss characteristics of an ABSTRACT DESIGN.
- Discuss applications of Decorative Design in the field of Home Economics.
- 3. What is STRUCTURAL DESIGN?
- 4. What is CHARACTER in Design?
- 5. What does STRUCTURAL ELEMENTS in FURNITURE involve?
- 6. Explain NATURALISTIC DESIGN.

Answer the following questions.

- 1. How is DECORATIVE DESIGN classified?
- 2. What are the requirements of a Good Structural Design
- 3. Write a note on EGYPTIAN ART with any one example

AD (2 Years) & BS (4 Years) I

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

• • • • •

Paper: Advanced Clothing Techniques Course Code: HETF-105 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

Roll No.

- i. What are the different causes of poor fitting?
- ii. What are the basic elements of design that may limit a designer in any field of fashion?
- iii. Write about different types of sleeves.
- iv. Discuss different types of tools used in the patternmaking.
- v. Explain general Principles of Collar.
- vi. How fullness can be created in a garment.

#### Q.2. Answer the following questions

- i. What problems can occur while handling Napped Fabric suggest solutions for them?
- ii. What to look for in deciding whether a garment fits well or not. Discuss in detail.
- iii. Explain with the help of illustrations any one method of pattern alteration.

AD (2 Years) & BS (4 Years)

Paper: Human Growth and Behaviour

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: HGB-113

Time: 3 Hrs. Marks: 60

Roll No.

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Write short note on the following.

(6x5=30)

- 1 Define Human Growth and Development.
- 2 Define Defense Mechanisms.
- 3 What is Freud's Psychoanalytic Theory?
- 4 What is Erikson's Psychosocial Theory?
- 5 Define Nature vs Nurture in Human Growth and Development.
- 6 Define Human Behavior.

#### Q.2. Answer the following questions

- 1 Describe how Psychology helps Social Workers in their practice.
- 2. Explain Erikson's theory of Psychosocial Development and its stages.
- 3 Differentiate between Neurosis and Psychosis with examples

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Paper: Research Methodology

Course Code: HIS-103N

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

(5x6=30)

روی درج دیل پر مختصر نوٹ تحریر کریں۔ ناریس کا گیپ ناریس کا گیپ

i. Research Gap

ii. Hypothesis

iii. Historical context

iii۔ تاریخی پس منظر

iv. Term Paper

v. Historiographical Context

۷- تاریخ نگاری کاسات وسات

Answer the following questions

(2x15=30)

درج ذیل سوالات کے جوابات تحریر کریں۔

Q. No. 2. What do you know about the external criticism?

سوال نمبر 2۔ آپ بیر ونی تنقید کے بارے میں کیا جانتے ہیں؟

Q. No. 3. What is the Importance of Auxiliary Sciences in History writing? Comment

سوال نمبر 3۔ تاریخ لکھنے میں امدادی علوم کی کیااہمیت ہے؟ تبعرہ کریں

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Ancient Civilizations (Early Life to 600 A.D)

Course Code: HIS-104N

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Write short note on the following.

$$(6x5=30)$$

سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

1. Discuss the religious beliefs of the Indus Valley people.

وادی سندہ کے مذہبی عقائد پر تبصرہ کریں

2. Discuss Ashoka's religious policy.

اشوک کی منبیی بالیسی پر تبصره کریں۔

3. What was the significance of Hammurabi's Code?

حمور ابی کے قوانین کی اہمیت بیان کریں۔

4. What are the basic features of Egyptian civilization?

مصری تبذیب کی بنیادی خصوصیات بیان کریں۔

5. What were the teachings of Confucius?

کنفیو شس کے تعلیمات بیان کر ہی۔

6. What led to the rise of Hellenistic civilization?

ہیلینسٹک تہذیب کے ظہور کی وجوبات بیان کریں۔

Answer the following questions

$$(3x10=30)$$

سوال نمبر 2:

1. Explain the contributions of Mesopotamian civilization in law, writing, and astronomy.

2. Discuss the causes behind the rise and fall of the Roman Empire.

Discuss the influence of ancient civilizations on modern society.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No. .....

Paper: Tarjuma-e-Quran Course Code: HQ-002 Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کانی پر حل کریں۔

Q.1. Translate the following verses into Urdu or English Language. (10x3=30)

سوال نمبر 1: مندرجه ذیل آیات مبارکه کااردو/انگریزی میں ترجمه کریں۔

- أَم اللَّهُمُ مَلِكَ اللَّكِ تُؤْتِي اللَّكَ مَنْ تَشَاءُ وَتَنْزَعُ اللَّكَ مِمْنُ تُشَاءً وَتُعِزُ مَنْ تَشَاءُ وَتُذِلُّ مَنْ تَشَاءً بِيَدِكَ الْحَيْرُ إِنَّكَ عَلَى كُلِّ مَنْ تَشَاءُ وَتُذِلُّ مَنْ تَشَاءً بِيَدِكَ الْحَيْرُ إِنَّكَ عَلَى كُلِّ مَنْ تَشَاءً بِيَدِكَ الْحَيْرُ إِنَّكَ عَلَى كُلِّ مَنْ تَشَاءُ وَتُدُنَّ هِ مَا اللَّهُ مُ مَا اللَّهُ مَا اللَّاكُ مَا اللَّهُ مَا اللّلِكُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ اللَّهُ اللَّهُ مَا اللَّهُ اللَّهُ مَا اللَّهُ مِنْ اللَّهُ مَا اللّ مُعْمَامُ اللَّهُ مِنْ اللَّهُ مِنْ اللَّلْكَالِمُ مَا اللَّهُ مِلْمُ اللَّهُ مِنْ اللَّالِمُ اللَّلْحَالَالِقُلْمُ اللَّهُ مِنْ اللَّهُ اللَّالِقُلْمُ اللَّالِي مَا اللَّهُ مِنْ ا
  - 2. قُلْ إِنْ كُنْتُمْ تُحِبُّونَ اللهَ فَاتَبِعُونِي يُحْبِبْكُمُ اللهُ وَيَغْفِرْ لَكُمْ ذُنُوبَكُمْ وَاللهُ عَفُورٌ رُحِيْمٌ ٥
- 3. فَوَيْلٌ لِلَّذِيْنَ يَكْتُبُونَ الْكِتْبَ بِآيُدِيْهِمُّ-ثُمَّ يَقُولُونَ هَذَا مِنْ عِنْدِ اللهِ لِيَشْتَرُوا بِهِ ثَمَتًا قَلِيلًا فَوَيْلٌ لَهُمْ مِمَا كَتَبَتْ آيَدِيْهِمْ وَوَيْلٌ
   4. فَوَيْلٌ لِللَّهُ فَمَا يَكْسِبُونَ o
- 4. وَإِذَا قِيْلُ لَهُمْ أَمِنُوا بِمَا أَنْزَلَ اللهُ قَالُوا نُوْمِنُ بِمَا أُنْزِلَ عَلَيْنَا وَيَكُفُرُونَ بِمَا وَرَأَءَهُ وَهُوَ الْحَقُّ مُصَدِقًا لِآ مَعَهُمْ قُلْ فَلِمَ تَقْتُلُونَ أَنْ وَإِذَا قِيْلُ لَهُمْ أَمِنُونَ وَهُوَ الْحَقُّ مُصَدِقًا لِآ مَعَهُمْ قُلْ فَلِمَ تَقْتُلُونَ إِنْ كُنْتُمْ مُؤْمِنِينَ ٥
- 5. وَلَمَا جَآءَهُمْ رَسُولٌ مِنْ عِنْدِ اللهِ مُصَدِقٌ لِنَا مَعَهُمْ نَبَدَ فَرِئِقٌ مِنَ الَّذِيْنَ أُوتُوا الْكِتْبُ ﴿ -كِتْبَ اللهِ وَرَآءَ طُهُوْدِهِمْ كَأَنَّهُمْ لَا يَعْلَمُوْنَ
   ه وَلَا مَعُهُمْ رَسُولٌ مِنْ عِنْدِ اللهِ مُصَدِقٌ لِلَا مَعَهُمْ نَبَدَ فَرِئِقٌ مِنَ الَّذِيْنَ أُوتُوا الْكِثْبُ ﴿ وَرَآءَ طُهُوْدِهِمْ كَأَنَّهُمْ لَا يَعْلَمُوْنَ
   ه وَلَا مَا عُنْدُ وَلَا مَا اللهِ مُصَدِقٌ لِيَا مَعْهُمْ نَبَدَ فَرِئِقٌ مِنَ اللّهِ مَن عَلَمُونَ مِن عَنْدِ اللهِ مُصَدِقًا لَهُ مُن عَنْدِ اللهِ مُصَدِقًا لَهُ مُن اللّهِ عَلَمُونَ اللّهِ مَن عَلَيْهُ وَلَا اللّهِ مُصَدِقًا لَهُ عَلَمُ اللّهِ مُصَدِقًا لَهُ مُن اللّهِ مُصَدِقًا لَهُ مُن اللّهِ عَلَمُ اللّهُ عَلَمُ وَاللّهُ مِن اللّهِ عَلَمُ اللّهِ عَلَمُ اللّهِ عَلَمُ عَلَيْهُ مَا اللّهِ عَلَمُونَ اللّهِ عَلَمُ اللّهِ عَلَيْ عَلَيْهِ مِن اللّهِ عَلَيْ اللّهِ عَلَيْهُ مَا لَا يَعْلَمُونَ مَنْ اللّهِ عَلَيْكُ اللّهُ عَلَيْ عَلَيْ عَلْمُ اللّهِ عَلَيْهُ عَلَيْ عَلَيْهُ مِنْ عَلَيْهِ عَلَيْ عَلَيْ عَلَيْهُمْ اللّهُ عَلَيْهُ اللّهُ عَلَيْهِ عَلَيْكُ اللّهُ عَلَيْدَ اللّهِ عَلَى اللّهِ عَلَيْ عَلَيْهُ اللّهُ عَلَيْتُ اللّهِ عَلَيْ عَلَيْهُ مِنْ عَلَيْهُمْ لَا يَعْلَمُونَ مَنْ عَلَا مُعَلَيْكُ اللّهُ عَلَيْهُ عَلَيْ عَلَيْهِ عَلَيْهِ عَلَيْكُ اللّهُ عَلَيْهُ مَا لَهُ عَلَيْكُونِ عِنْ اللّهِ عَلَيْكُ اللّهُ عَلَيْهُ عَلَيْمُ عَلَيْهُ عَلَيْهُ عَلَيْكُ اللّهُ عَلَيْهُ عَلَيْهُ عَلَيْهُ عَلَيْ عَلَيْكُونِ عَلَيْكُ اللّهِ عَلَيْكُ عَلَيْكُونُ عَلَيْكُونِ عَلَيْكُ عَلَيْكُونُ عَلَيْكُونُ اللّهِ عَلَيْكُونُ عَلَيْكُونُ عَلَيْكُ عَلَيْكُونُ اللّهِ عَلَيْكُونُ اللّهِ عَلَيْكُونُ عَلَّا عَلَيْكُونُ عَلَيْكُونُ عَلَيْكُونُ
- 6. وَإِذْ قَالَ إِبْرَهِمُ رَبِّ الْجَعَلَ هَذَا بَلَدًا أَمِنًا وَارْزُقَ آهَلَهُ مِنَ الثَّمَرَتِ مَنْ أَمَنَ مِنْهُمْ بِاللَّهِ وَالْيَوْمِ الْاَجْرِ قَالَ وَمَنْ كَفْرَفَأَمَتِعُهُ قَلِيْلًا
   ثُمَّ أَصْطَرُهُ إِلَى عَذَابِ الثَّارِ وَبِلْسَ الْمُصِينَ ٥
  - 7. فَتَقَبَلْهَا رَجُهَا بِقَبُولِ حَسَنٍ وَ ٱنْبَهَا نَبَاتًا حَسَنًا ۖ وَكُفّلْهَا رَكُرِنًا حُلّمًا دَخَلَ عَلَهَا رَكُرِنًا الْمِحْرَابُ وَجَدْ عِنْدَهَا رِزْقًا -قَالَ يَمَرْبُمُ آثَى
     7. فَتَقَبَلْهَا رَجُهَا الْمُحْرَابُ وَجَدْ عِنْدِ اللّهِ إِنَّ اللّهَ يَرْزُقُ مَنْ يُشَاءُ بِغَيْرِ حِسَابٍ ٥
     لَكِ هَذَا -قَالَتْ هُوَ مِنْ عِنْدِ اللّهِ إِنَّ اللّهَ يَرْزُقُ مَنْ يُشَاءُ بِغَيْرِ حِسَابٍ ٥
    - 8. رَئِنَا إِنَّكَ جَامِعُ النَّاسِ لِيَوْمِ لَّا رَئِبَ فِيْةٍ-إِنَّ اللَّهَ لَا يُخْلِفُ الْمِيْعَادَ ٥
    - 9. شَهِدَ اللهُ أَنَّهُ لَا إِلٰهَ إِلَّا هُوِّ وَ الْمُلْبِكَةُ وَأُولُوا الْعِلْمِ قَائِمًا بِالْقِسْطِ-لَا إِلٰهَ إِلَّا هُوَ الْعَزِيْزُ الْحَكِيْمُدُ ٥
      - 10. رَتُنَا أَمَنًا بِمَا أَنْزَلْتَ وَ اتَّبَعْنَا الرَّسُولَ فَاكْتُبْنَا مَعَ الشَّهدِيْنَ ٥
- Q.2. Use attached pronouns with "دين" and give their meanings. (1x10=10)

سوال نمبر 2: " دین " کے ساتھ ضائر متصلہ لگائیں اور ان کے معانی لکھیں۔

Q.3. Write the meanings of the following Qur'anic words. (10x1=10)

سوال نمبر 3: مندرجہ ذیل قرآنی الفاظ کے اردومیں معانی ککھیں۔

(1)سبيل (2)صلاة (3)سميع (4)عليم (5)يوم (6)ليل (7)نهار (8)خاسرين(9)ذلك (10) مُم

Q.4. Write the plural with the given words. (10x1=10)

سوال نمبر 4: مندرجه ذیل الفاظ کی مددسے واحد کی جمع لکھیں۔

مُوَتِّ- أَلذي- صالحٌ - يَدِّ- رَسُول - أَنا - غَافِلٌ- - شَيْطِان - يؤمنْ-- يُفْسِدُ-

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

**Paper: Information Services and Sources** Course Code: INF-206

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Write short note on the following.

(5x6=30) سوال نمبر1: درج ذیل پر مخضر نوٹ تحریر کریں۔

i. Virtual reference services

ورچو ئل حواله جاتی خدمت

ii. Reference Librarian

> حواله جاتى لائبريرين .ii

iii. Bibliographies

.iii

Roving reference İ۷.

گھوم پھر کر حوالہ جاتی خدمت کی فراہمی

Styles of reference service ٧.

حوالہ جاتی خدمات کے سٹا کلز

#### Answer the following questions Q.2.

(3x10=30)

سوال نمبر 2: درج ذیل سوالات کے جوابات تحریر کریں۔

i. Describe the types of reference services in libraries.

> لا ئبریریوں میں حوالہ جاتی خدمات کی اقسام بیان کریں۔ i.

What is the meaning of information sources and services and why are they ii. important?

> معلومات کے ذرائع اور خدمات کا کیامطلب ہے اور وہ کیوں اہم ہیں؟ ii.

What do you know about future of reference service? Discuss. iii.

> آپ ریفرنس سروس کے مستقبل کے بارے میں کیاجانتے ہیں؟ بحث کریں۔ iii.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Study of Seerah of the Holy Prophet (PBUH)

Course Code: ISLG-101 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Answer the following short questions. Q.1.

(15x2=30)

درج ذیل سوالات کے مختصر جواب دیں۔

(1) قبل از اسلام ایرانی قوم کن چیز وں کی پرسٹش کرتی تھی؟

1. What things did Iranian people worship before the Islam?

(2) تبل ازاسلام عربول کے اخلاقی اوصاف تحریر سیجے۔ (صرف عنوانات)

2. Describe the moral characteristics of pre-Islamic Arab. (Only titles)

(3) عرب کے قدیم ترین بتوں کے نام بیان کچھے۔

3. Enlist the names of oldest idols of Arab.

(4) مارازواج مطمرات كے نام تري تيجے۔

4. Narrate the four names of Wives of Holy Prophet (SAW).

(5) حرب الفحارے كيام ادے؟

5. What is meant by Harb-ul-Fijar?

(6) پمل وقی کے نزول کے بعد حفرت خدیجے نے ٹی اٹھائیم کو تعلی کن الفاظ میں دی؟

6. After the first revelation, what were the words of Hazrat Khadija (RA) to encourage Holy Prophet (SAW)?

(7) عام الحزان سے كيامراد ہے؟

7. What is meant by the Year of Sorrow?

(8) جرت مبشه کی دو وجوبات تحریر کیھے۔

8. Narrate the two reasons for migration to Abyssinia?

(9) بیعت عقبہ الاولیٰ کے دواہم نکات کھے۔

Describe two important points of Bait-e-Ugba Oala.

(10) جرت مديد ين يُعْلِقِيمُ كم ساحتى كون ع محالي تعدي فيز أنمول في س غار يس بناه لي؟

10. Who was the companion of Holy Prophet (SAW) in migration to Madinah? Also in which cave they took shelter?

(11) وعوت نبول المنظيم كابيم نكات كلي - (مرف عنوانات)

11. Write down the important points of preaching of Holy Prophet (SAW).

(12) يوم الفرقان كس غزوه كوكبا جاتا ہے؟

12. Which battle is called Yum al-Fürgan?

(13) غزوہ ہے کیام ادے ؟ غزوات کی تعداد بان کھے۔

13. What is meant by Ghazawa? State the numbers of Ghazawat.

(14) عبد نوى كے معاشى نظام كى دو خصوصيات تحرير يجيے۔

14. Describe the two salient features of economic system of the era of Holy Prophet (SAW)

(15) يرة الني النظيظ مردو أردوكت ك نام مع معتنين كاساء كراى تحرير يجيد

15. Write down the two Urdu books with the names of authors on the topic of Seerat -un- Nabi (SAW).

Q.2. Answer the following questions in detail.

$$(3x10=30)$$

(3x10=30) سوال نمبر 2: درج ذیل سوالات کے تفصیلی جواب دیں۔

1: نی النوریم کے کی حالات زندگی اجمالاً بیان کیجے۔

1. Briefly describes the Meccan life of Holy Prophet (SAW).

2: پہلی اور دوسری ججرت حبشہ کے واقعات تفصیلًا تحریر سیجے۔

2. Describe the happenings of the first and second migration of Abyssinia in detail.

sinia in detali. 3: فنح مكه كي وجوبات ، واقعات اور نتائج پر تقصيلًا بحث سيجيے-

3. Discuss the causes, events and consequences of conquer of Makkah in detail.

Page 2 of 2

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Introduction to Social Welfare Course Code: ISWF-112

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1.	. Answer the following questions.	(3x10=30)
1.	Give a brief description of the philosophical foundations of social v	vork.
2.	Describe professional and voluntary principles of social work.	
3.	Briefly describe Islamic perspective on social work.	
Q.2.	<b>5</b> 1	(2x15=30)
1.	Critically analyze contemporary challenges and opportunities in so	cial work.
2.	Give a detailed description of 'social case work' as method of social	ial work.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

**Paper: Management of Libraries and Information Centers** 

Course Code: MAN-205 Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Answer the following short questions. Q.1.

(6x5=30)

- How to evaluate a new employee in libraries?
- 2. Difference between public and special libraries?
- 3. How to motivate information professionals?
- 4. Why is the effective management of public libraries important?
- 5. Describe the role of the interview during the hiring process.
- 6. Strategies to retain an employee.

#### Answer the following questions

(2x15=30)

- 1. What is management? Why functions of management in libraries and information centers important? 15
- 2. Discuss the historical paradigm of management. 15

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Roll No.

Paper: Plane Curves & Analytical Geometry Course Code: MATH-102N Time: 3 Hrs. Marks: 6

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Solve the following questions.

(6x5=30)

- 1) Find the standard equation of the circle with center at (1,-2) and passing through the point (7,4).
- 2) Find an equation of the normal line to the curve  $x = a\cos^4\theta$ ,  $y = a\sin^4\theta$  at  $\theta = \frac{\pi}{4}$ .
- 3) Find cylindrical coordinates for the point with rectangular coordinates  $(2, 2\sqrt{3}, 8)$ .
- 4) Find the point on the y-axis equidistant from (2,5,3) and (3,6,1).
- 5) Find rational and trigonometric parametric representations of the circle,  $x^2 + (y-2)^2 = 25$ .
  - 6) Identify and sketch the quadric surface,  $x^2 + y^2 + 4z^2 = 10$ .

#### Solve the following questions.

(4x7.5=30)

- Q2). Find a vector parallel to the line of intersection of the planes 3x 6y 2z = 15 and 2x + y 2z = 5.
- Q3).Let E be the eccentricity of the ellipse and semi-major axis is a, then its equation in polar coordinates is given  $r = \frac{a(1-E^2)}{1+E\cos\theta}$ .
  - Q4) a)Draw a graph of the function  $f(x) = \frac{x}{x^2-1}$  (3)
- b) Find formula for the angle between any two space vectors using dot product. Also find the condition of perpendicularity. (4.5)
  - Q5). Find pedal equation of the curve,  $r = 8(1 \cos\theta)$ .



AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Introduction to Graph Theory Course Code: MATH-103N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Solve the following questions.

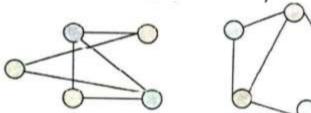
(6x5=30)

- i) Define regular graphs. Use handshaking lemma to find the size of these graphs
- ii) Given the adjacency matrix of a graph,  $I = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 1 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 \end{bmatrix}$ . Determine the degree of each vertex, order of graph, size of graph using adjacency matrix? Also draw the corresponding graph and then write its incidence matrix.
- iii) Define bipartite graph, wheel graph and k-cube with examples. Also prove that the length of a cycle in a bipartite is always even.
- iv) For which values of n is the wheel  $W_n$ , Eulerian and Hamiltonian. Explain the reason. Also compute the edge connectivity  $\lambda(W_6)$ , vertex connectivity  $\kappa(W_6)$ .
- v) If G is a simple graph with at least two vertices then prove that G must contain two or more vertices of the same degree.
- vi) Write a note on chromatic number. Also prove that chromatic number of tree is 2.

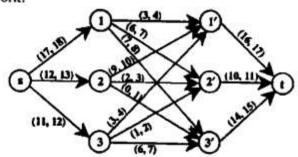
## Q.2. Solve the following questions.

(5x6=30)

- Prove that a tree on n vertices has n-1 edges.
- Determine all spanning trees of the graph G with vertex set  $V(G) = \{a, b, c, d, e\}$  and edge set  $E(G) = \{ad, ae, de, be, bc, ce\}$ . Moreover if edges are weighted as  $\{ad: 2, ae: 3, de: 5, be: 1, bc: 7, ce: 2\}$ , determine the minimal spanning tree.
- Let G be a planar drawing of a connected planar graph with n vertices, m edges and f faces. Then prove that n m + f = 2. Also by using this, prove that  $K_5$  is non-planar
- iv) Prove that the following graphs are isomorphic.



v) Find the maximum flow from source vertex s to sink vertex t and minimum cut of the following capacitated network:



AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Semester-Spring 2025 Roll No.

Paper: Discrete Mathematics Course Code: MATH-104N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Solve the following questions.

(6x5=30)

- a)Discuss the logical equivalence of the two statements  $\neg (p \lor (p \land q))$  and  $\neg p \land \neg q$  by developing a series of logical equivalences.
- b) Prove that Set of positive rationals is countable.
- c)Find a formula for the sequence 0, 0, 0, 0, 1, 1, 1, 1, 2, 2, 2, 2, ...
- d)Let us assume that we have a hotel with an infinite many rooms, each occupied by a person. Is it possible to adjust 5 new guests keeping in mind that each room can accommodate a single guest and no old guest will be asked to leave. How?
- e)In how many different orders can five runners finish a race if no ties are allowed?
- f) What is Inclusion- Exclusion principle? Also find how many bits of string of length 8 start with a 1 bit and end with two bits 00 are possible?

#### Solve the following questions.

- Q2). Use Mathematical induction to prove that, a)1+2+2<sup>2</sup>+...+2<sup>n</sup> =  $2^{n+1}-1$  (4)
- b) Prove that  $\sqrt{3}$  is irrational (3.5)
- Q3) Each user on a computer has a password, which is six to eight characters long, where each character is an uppercase letter or a digit. Each password must contain at least one digit. How many passwords are possible. Also find the probability of choosing such password. (7.5)
  - Q4). What is Bayes Rule for Probability. Prove this rule. Explain it with two examples. (7.5)
- Q5).a) Find a simple formula for  $a_n$  if the first six terms of the sequence are 1, 7, 25, 79, 241, 727,...(4)
- b) Without using truth table, Show that  $(p \land q) \rightarrow (p \lor q)$  is a tautology (3.5).

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Islamic System of Education Course Code: MCED-103 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

# Q.1. Answer the following short questions. (6x5=30) سوال نمبر 1: درج ذیل پر مخضر نوٹ تحریر کریں۔

i. Write the meaning and definitions of education.

ii. Write a note on the sources of education in Islam.

iii. Write a note on the importance of examination in education system.

iv. Write Quranic verses on the importance of education.

v. Write the features of the Islamic Curriculum.

vi. Write the characteristics of Teacher.

## Q.2. Answer the following questions (3x10=30)

i. Write a note on the importance and necessity of women's education in the Islamic System of Education.

ii. Write the objectives of education in Islamic System of Education in detail.

iii. Write the characteristics of Islamic Education System.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Course Code: MCED-104

Roll No.

Time: 3 Hrs. Marks: 60

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- 1. Define System?
- 2. What are essential competencies for sustainable development?
- 3. Explain academic curriculum?

**Paper: Education for Sustainable Development** 

- 4. What are forms of curriculum evaluation?
- 5. What is interdisciplinary approach?
- 6. What are techniques of evaluation?

Q.2. Answer the following questions

- 1. Discuss Eisner model of curriculum?
- 2. What are types of curriculum, discuss?
- 3. What is system design in curriculum?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: MD-002N

## Q.1. Solve the following questions.

Paper: Math Deficiency - II

(6x5=30)

Evaluate $\int \frac{x^4}{x^2-1} dx$
Find the Derivative of the function $e^{\sqrt{x+1}}$
The height s of a rocket t sec after its launching is given by $s(t) = -t^3 + 2t^2 + 3$ . Find the instantaneous velocity of the rocket at $t = 2 \sec c$
Find $\lim_{x\to 2} \frac{x-2}{\sqrt{2+x}}$
What is the magnitude of the complex number $-1 - i\sqrt{3}$
Evaluate the integral $\int_0^{2\pi} \sin 2x  dx$

## Solve the following questions.

Q.2	Find the total area between the region and x-axis $y = x^4 - 2x^3 + 2x , 0 \le x \le 2$	
Q.3	. Evaluate the following integral (a) $y = \int_1^2 \frac{5 \ln x}{5x} dx$ (b) $y = \int_0^{\frac{\pi}{6}} \tan 2x  dx$	
Q.4	(i) Find the value of $n$ when $11P_n=11.10.9$ (ii) If $x$ is so small that its square and higher powers can be neglected, show that $\frac{1-x}{\sqrt{1+x}}\approx 1-\frac{3}{2}x$	

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

**Course Code: MPHY-102** 

## Q.1. Solve the following questions.

Paper: Calculus - II

(5x6=30)

1.	Find $f_x$ , $f_y$ , $f_z$ of the function $f(x, y, z) = 1 + xy^2 - 2z^2$ .
2.	Find the angle between $u = \hat{\imath} - 2\hat{\jmath} - 2\hat{k}$ and $v = 6\hat{\imath} + 3\hat{\jmath} + 2\hat{k}$ .
3.	Find the acute angle of intersection between two planes $2x - 4y + 4z = 6$ and $6x + 2y - 3z = 4$ .
4.	Find equation of paraboloid $z = x^2 + y^2$ in cylindrical and spherical coordinate systems.
5.	Find the curvature and radius of curvature for vector $r(t) = e^t \hat{i} + e^{-t} \hat{j} + t \hat{k}$ at $t = 0$ .

## Q.2. Solve the following questions.

1.	Evaluate the integral and sketch the region of integration $\int_{1}^{ln8} \int_{0}^{lny} e^{x+y} dx dy$
2.	Find the local maxima, local minima and saddle points of the function $f(x, y) = 4xy - x^4 - y^4$ .
3.	Sketch the graph of the hyperbolic paraboloid $z = \frac{y^2}{4} - \frac{x^2}{9}$ .

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

**Paper: Waves and Optics** Course Code: MPHY-112 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- a) Show that total mechanical energy in SHM is constant. Also calculate velocity  $v_x$  at the displacement  $x = 0, \pm A/2$ .
- b) Discuss vertical simple harmonic motion.
- c) What is a physical pendulum? Derive expressions for the period and angular frequency.
- d) Discuss and graphically express the mechanism behind the formation of Beats.
- e) What is dispersion of light? How rainbows form? Differentiate primary and secondary rainbows.
- f) Differentiate Fresnel (near-field) and Fraunhofer (far-field) diffractions. Also derive a mathematical condition and locate the dark fringes in a photograph of the Fraunhofer diffraction pattern of a single horizontal slit.

#### Answer the following questions Q.2.

- a) Show that oscillations of molecules bound by the van der Waals interaction can be simple harmonic motion.
- b) Find the expression for intensity in two-source interference. Also derive a condition for maximum intensity
- c) (i) What is the role of interference in Holography? Also explain the method to record and view a Hologram.
  - (ii) How do the circular apertures affect resolving power? Also describe the role of diffraction for image resolution.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Paper: Probability and Statistics Course Code: MS-251 N 1 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(10x3=30)

- I. Differentiate between sample and sampling.
- II. Define random sampling and non-random sampling
- Differentiate between statistic and statistics.
- Define sample space when 3 coins are tossed.
- V. What is the probability of drawing a FACE card from a pack of cards?
- VI. How many permutations can be made from the word PAKISTAN?
- VII. Define mutually exclusive events also write addition law for mutually exclusive events.
- VIII. Differentiate between Null and alternative hypothesis with examples.
- IX. What is the probability of the sum of a two-dice roll equal to 4?
- Write formulas for mean and variance of discrete random variable.

#### Q.2. Answer the following questions

(3x10=30)

 For the following are the final grades obtained by 12 students in Statistics(X) and Accounting(Y)

Statistics	74	93	55	41	23	92	64	40	71	33	30	71
Accounting	81	86	67	35	30	100	55	52	76	24	48	87

Find the equation of line of regression which will enables us to predict the grade in Accounting on the basis of grades in Statistics.

II. A discrete random variable X has the following probability distribution

X	3	4	5	6	7	8	9
P(X)	0.04	0.10	0.26	0.31	0.22	0.05	K

- a. Find the value of K and then find the following probabilities
- b.  $P(5 \le X \le 9)$  c.  $P(3 \le X \le 6)$  d. Mean of the distribution

#### III. Let X be a continuous random variable with PDF given by

$$f(X) = \begin{cases} x^2(2x + \frac{3}{2}) & 0 \le x \le 1\\ 0 & otherwise \end{cases}$$

- Show that f(x) is a valid density.
- b. Find Var(X) and S.D(X)
- c. Find P(X<0.5)</li>

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025 Roll No.

Paper: Linear Algebra Course Code: MS-252 N Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

i.	Let $A = \begin{bmatrix} 1 & 1 & -2 \\ 4 & 3 & 1 \\ 2 & -6 & 3 \end{bmatrix}$ , $B = \begin{bmatrix} 3 & 4 & -4 \\ 2 & 4 & 1 \\ 0 & 1 & 9 \end{bmatrix}$ . Calculate $A^2 - 3AB$ .
ii.	Show that $\begin{vmatrix} bc & ca & ab \\ 1/a & 1/b & 1/c \\ a^2 & b^2 & c^2 \end{vmatrix} = 0.$
iii.	Let $u, v \in \mathbb{R}^2$ , $u = (x_1, x_2)$ , $v = (y_1, y_2)$ . Determine if $\langle u, v \rangle = 2x_1y_1 - 3x_1y_2 - x_2y_1 + y_2$ is an inner product on $\mathbb{R}^2$ .
iv.	Find an equation defining the subspace $W$ of $\mathbb{R}^3$ spanned by $v_1 = (1, -3, 2), v_2 = (-2, 1, 2), v_3 = (-3, -1, 6).$
v.	Determine whether the transformation $T: \mathbb{R}^2 \to \mathbb{R}^2$ defined by $T(x_1, x_2) = (x_1 + 1, x_2 + 2)$ is linear or nonlinear.
vi.	Find the inverse of the matrix $\begin{bmatrix} -4 & -3 & 7 \\ 2 & 0 & 9 \\ 1 & 4 & -5 \end{bmatrix}$ if exists.

## Q.2. Answer the following questions

i.	Show that $\{(1,1,1), (0,1,1), (0,0,1)\}$ is a basis of $\mathbb{R}^3$ . Use the Gram-Schmidt process to transform this basis into an orthonormal basis.							
ii.	Find the optimal solution of the following linear programming problem using simple method.  Minimize $z = 3x_1 - 5x_2$ subject to	lex						
	$x_1 + x_2 \le 6$							
	$   \begin{aligned}     x_1 + x_2 &\le 6 \\     3x_1 + 2x_2 &\le 5   \end{aligned} $							
	$x_1, x_2 \ge 0$							
iii.	Find the eigenvalues and eigenvectors of the matrix $A = \begin{bmatrix} 3 & 1 & 1 \\ 2 & 4 & 2 \end{bmatrix}$ .							
	[1 1 3]							

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

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Paper: Games - II (Theory) Course Code: PE-151 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- 1. Briefly explain the evolution of tennis and its major rule changes.
- 2. Describe the correct grip and stance for a basic forehand stroke in tennis.
- 3. What are the primary roles of the Goal Shooter and Goal Attack in Netball?
- 4. List and describe three basic stick-handling techniques used in hockey.
- Explain the significance of teamwork and positioning in Netball strategy.
- Compare singles and doubles strategies in tennis with reference to court coverage.

#### Q.2. Answer the following questions

- Discuss the coaching approaches for teaching foundational skills in tennis, netball, and hockey, highlighting similarities and differences.
- Analyze the importance of defensive strategies in netball and hockey, providing examples of how teams adapt to different opponents.
- Design a week-long integrated practice schedule that incorporates drills and gameplay for tennis, netball, and hockey, focusing on skill transfer and physical conditioning.

AD (2 Years) & E

Paper: Athletics - II (Theory)

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

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Course Code: PE-153 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- Describe the principle of pace judgment and its importance in middle-distance races.
- 2. How does aerobic capacity impact performance in long-distance races?
- 3. What are the benefits of incorporating speed development drills into a middle-distance training program?
- Explain the role of recovery techniques such as foam rolling and active rest in training cycles.
- 5. What tactics should a runner consider when racing in different weather or terrain conditions?
- 6. Highlight the differences in training focus between a 3000m and a 10,000m athlete.

#### Q.2. Answer the following questions

- Compare various endurance training methods for races over 5000m, citing the advantages and limitations of each.
- Critically discuss the interplay between biomechanics and physiology in distance running performance.
- Propose a comprehensive pre-competition plan for a middle-distance athlete, including tapering, mental prep, and race-day strategy.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Paper: Rhetoric Course Code: PER-103 Time: 3 Hrs. Marks: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

	تہام سوالات کے جواب ککھیے	لو <u>ث:</u>
12	قصر و حصر کی تعریف سیجیے اور فارسی اشعار کی مثالوں سے وضاحت سیجیے	(1
12	مساوات سے کیامر ادہے؟ فاری اشعار کی مثالوں سے وضاحت سیجیے	(2
12	مجاز کی تعریف سیجیے۔اس کی اقسام درج سیجیے اور مثالیں دیجیے	(3
12	صنعت تضادكي وضاحت سيجي اور مثاليس لكهي	(4
12	صنعت حسن تعلیل کے بارے میں آپ کیا جانتے ہیں، وضاحت سیجیے اور مثالیں و سیجے	(5

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025 Roll No.

Paper: Igbal Studies - I Course Code: PER-104

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

اس پرچه کومهیا کی گئی جوابی کا پی پر حل کریں۔

## نوٹ: تمام سوالات کے جواب کھیے

15

همنشین از نغمهام ناآشناست رسم و آئین فلک نادیدهام هست ناآشفته سیمایم هنوز

15

فاخته شاهین شود از تپش زیر دام خیز چو سرو بلند ای بعمل نرم گام گیر ز مینای تاک بادهٔ آئینه فام

15

فریاد! ز شیرینی و پرویزی افرنگ معمار حرم! باز به تعمير جهان خيز از خواب گران خیز

10

5

بسكه عود فطرتم نادر نواست در جهان خورشید نوزائیدهام ندیده انجم از تابم هنوز

سوال نمبر: 2) درج ذیل اشعار کاار دوتر جمید اور تشریح کیجے:

زندگی سوز و ساز به ز سکون دوام هیچ نیاید ز تو غیر سجود نیاز کوثر و تسنیم برد، از تو نشاط عمل

سوال نمبر: 3) درج ذیل اشعار کاار دوتر جمه اور تشریک کیجے:

فریاد! ز افرنگ و دلاویزی افرنگ عالم همه ویرانه ز چنگیزی افرنگ از خواب گران خواب گران خواب گران خیز

سوال نمبر: 4) علامه اقبال کے تصور خودی کی وضاحت سیجے

سوال نمبر: 5) علامه اقبال كي نظم" طياره" كامر كزي خيال تحرير يجي

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Roll No.

Paper: Origins of Democracy and Democratic Institutionalism: Philosophical Approaches

Course Code: PS-111N Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

- 1) Explain Plato's idea of Philosopher King/ideal ruler.
- 2) How does Cicero define civic virtue, and why is it important for the survival of the republic?
- John Lock's Idea of Representative Government
- 4) What is the connection between the Enlightenment and the development of constitutional government?
- 5) What is the role of the public sphere in Jürgen Habermas' theory of deliberative democracy?
- 6) How does globalization impact the functioning of democracy in both developed and developing countries?

### Q.2. Answer the following questions

- In Politics, Aristotle outlines the concept of a mixed government. How does
  Aristotle combine elements of democracy and oligarchy in a polity, and
  what are the benefits of such a system?
- 2) How did Enlightenment philosophy influence the American and French Revolutions and their democratic ideals?
- 3) How do the rise of populism and anti-globalization movements pose challenges to the principles of liberal democracy?

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: The Science of Politics: Statecraft and Institutional Framework

Course Code: PS-112N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

- 1. Write a note on Electoral Constituencies.
- Explain the Islamic concept of State.
- Differentiate between Interest Groups and Pressure Groups.
- 4. What is the role of Technocratic leadership in a political system?
- 5. Explain the functions of Executive.
- 6. What are the key tools of Diplomacy?

### Q.2. Answer the following questions

- 1. Describe Hobbes, John Locke and Rousseau's theory of Social Contract.
- 2. Explain in detail the merits and demerits of Bicameral Legislation.
- 3. Define Political Parties and what are their kinds and functions.

AD (2

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: SAPY-211

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

1. What is cognition?

Paper: Introduction to Psychology

- Briefly explain the binocular and monocular cues.
- Define and explain social facilitation with an example.
- 4. Describe any two types of emotions.
- 5. What is the role of the endocrine system in behavior?
- 6. What are Gestalt principles in perception?

Q.2. Answer the following questions

- Explain the types of senses and their functions.
- Discuss problem-solving and decision-making processes.
- Explain physiological changes and theories related to emotions.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Inorganic Chemistry Course Code: SE-303

Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

- (6x5=30)
- Discuss Sommerfeld's modification to Bohr's atomic model.
- II. Derive formula of total energy of an electron in first orbit by using Bohr Theory.
- III. Define polarizability. Discuss different factors affecting polarizability.
- IV. Write postulates of VSPR theory.
- V. What are the hazards of soap industry.
- VI. Define 'ELECTRONEGATIVITY'. Discuss trends in periodic table.
- Q.2. Answer the following questions.

- 1. Define and explain Modern periodic table in detail.
- Discuss relative strength of acid and base based on pKa value.
- Define Ligand. Explain its types with examples.

Time: 3 Hrs.

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: SE-303A

### Solve the following questions.

Paper: Vector & Mechanics - I

(6x5=30)

- 1. Find the angle between  $\vec{A} = 2\hat{i} + 2\hat{j} \hat{k}$  and  $\vec{B} = 6\hat{i} 3\hat{j} + 2\hat{k}$ .
- 2. If  $\vec{A} = x^2y\hat{i} 2xz\hat{j} + 2yz\hat{k}$ , then find  $\nabla \times \vec{A}$ , where  $\nabla = \hat{i}\frac{\partial}{\partial x} + \hat{j}\frac{\partial}{\partial y} + \hat{k}\frac{\partial}{\partial z}$ .
- If A and B are irrotational, prove that A × B is solenoidal.
- 4. Show that the effect of a couple upon a rigid body is unaltered if it is replaced by any other couple of the same moment lying in the same plane.
- $\nabla \cdot (\vec{A} \times \vec{r})$  if  $\nabla \times \vec{A} = 0$ . 5. Evaluate
- 6. Three forces act perpendicularly to the sides of a triangle at their middle points and are proportional to the sides. Prove that they are in equilibrium.

### Solve the following questions.

- 1. If  $\psi(x,y,z)=x^2y^4z$  and  $\vec{A}=xz\hat{i}-xy^2\hat{j}+yz^2\hat{k}$ , find  $\frac{\partial^3}{\partial x^2\partial z}(\psi\vec{A})$  at the point (2,-1,1).
- 2. Six equal uniform rods AB, BC, CD, DE, EF, FA each of weight "w" are freely jointed to form a regular hexagon. The rod AB is fixed in horizontal position and the shape of the hexagon is maintained by a light rod joining C and F. Show that the thrust in this rod is  $\sqrt{3}w$ .
- 3. Prove that any system of forces in a plane is equivalent to three suitably chosen forces X, Y. Z acting along the sides  $\overline{BC}$ ,  $\overline{CA}$ ,  $\overline{AB}$  of a given triangle in the plane. Prove that if the system is equivalent to a couple G, then  $\frac{X}{BC} = \frac{Y}{CA} = \frac{Z}{AB} = \frac{G}{2\Delta}$ .

AD (2 Year

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Invertebrate Diversity (Classification, Phylogeny & Organization)

Course Code: SE-304 Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

#### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

- i. Differentiate between acoelomate, pseudocoelomate, and coelomate body plans.
- ii. Describe the locomotion methods in protozoa.
- iii. State three key features of Phylum Mollusca and give examples.
- iv. Explain the significance of segmentation in annelids.
- Write a short note on the water vascular system of echinoderms.
- vi. List the differences between open and closed circulatory systems with examples.

#### Q.2. Answer the following questions.

- 1 Explain the evolutionary importance of the metameric body form using examples from Annelida and Arthropoda.
- 2 Describe the general characteristics of the Phylum Arthropoda and explain why it is considered the most successful animal phylum.
- 3 Discuss the diversity and classification of protozoans.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Roll No.

Paper: Plane Curve and Analytic Geometry Course Code: SE-304 A Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Answer the following short questions.

(6x5=30)

- 1) Identify the graph of the equation xy 10 = 0.
- 2) Show that the lines  $L_1$ :  $x = x_0 + at$ ,  $y = y_0 + bt$ ,  $z = z_0 + ct$  and  $L_2$ :  $x = x_1 + At$ ,  $y = y_1 + Bt$ ,  $z = z_1 + Ct$  are perpendicular if and only if aA + bB + cC = 0
- Find cylindrical coordinates for the point with rectangular coordinates (2, 2√3, 8).
- 4) Find the point on the y-axis equidistant from (2,5,3) and (3,6,1).
- 5) Find rational and trigonometric parametric representations of the circle,  $4x^2 + 2y^2 = 20$ .
- Identify and sketch the quadric surface, 18x<sup>2</sup> 2y<sup>2</sup> + 32z<sup>2</sup> = 288.

#### Answer the following questions.

(4x7.5=30)

- Q2). Find an equation of the plane containing the point P(1,3,1) and the line L: x = t, y = t, z = t + 2.
  - Q3). Find polar form of a general conics. Find the conditions for parabola and hyperbola.
  - Q4) a) Find the slope of  $r = 2 + \sin\Theta$  when  $\Theta = \frac{\pi}{8}$ .(3)
- b) Find an equation of the Ellipse in the standard form.(4.5)
- Q5). Find Formula for the angle between any two space vectors in terms of dot product. Also find the condition of perpendicularity.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: SMTH-102

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Answer the following short questions.

(6x5=30)

- i) If  $T: \mathbb{R}^2 \to \mathbb{R}$  is a linear transformation such that T(1,1) = 3 and T(0,1) = 3-2 then find  $T(x_1, x_2)$ .
- ii) Solve the system of linear equations

$$2x-y-z=4$$
,  $3x+4y-2z=5$ ,  $3x-2y+4z=7$ 

- iii) Define adjoint of a matrix. Find adjoint of given matrix

Paper: Linear Algebra

- iv) Prove that any finite dimensional vector space contains a basis.
- v) Find eigen values and eigen vectors of matrix A where  $A = \begin{bmatrix} 0 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$
- vi) Show that the vectors  $\{(1,2,3),(0,1,2),(0,0,1)\}$  spans  $\mathbb{R}^3$ .

### Answer the following questions

- Q.2. Find the eigenvalues and eigenvectors of the matrix  $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$ .
- Q. 3. Determine whether or not the set  $\{(2, 4, -3), (0, 1, 1), (0, 1, -1)\}$  of vectors is a basis for  $R^3$ .
- Show that the vectors (2, 1, 1), (3, 0, -3), (-1, 1, 2) and (4, 2, -2) are linearly Q. 4. dependent.

AD (2 Years)

Paper: Sociology - II

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Course Code: SOC-103N Time

# THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Answer the following short questions.

(6x5=30)

Roll No.

Time: 3 Hrs. Marks: 60

- 1. Define social stratification and its main characteristics.
- 2. What are the different systems of stratification?
- 3. Explain the concept of poverty.
- 4. What is the function of religion in social life?
- 5. What is demographic change?
- 6. Briefly explain the concept of social movements.

### Q.2. Answer the following questions

- Explain the concept of culture and discuss its impact on social organization and individual behavior.
- Describe the functions and importance of the institution of family and education in society.
- Describe the demographic and environmental aspects of social change.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Course Code: SOC-104N

Roll No.

Time: 3 Hrs. Marks: 60

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Answer the following short questions.

**Paper: Development of Social Thought** 

(5x6=30)

- (a) Differentiate between social thought and sociological theory.
- (b) Write a note on the Imam Ghazali's theory of social justice.
- (c) What are the major propositions of Indian social thought? Explain with examples.
- (d) Differentiate between structuralism and poststructuralism.
- (e) Write a short note on the theory of rise and fall by Ibn-e-Khaldun.

#### Answer the following questions

- Q2. What are the major pillars of Chinese social thought?
- Q3. Write a note on the theory of social morbidity by Shah Wali Ullah.
- Q4. Elaborate Abu Zar Ghafari's theory of wealth.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Roll No.

(6)

(4)

Paper: Probability Theory and Applications Course Code: STAT-102N Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

### Q.1. Answer the following short questions.

(5x6=30)

- i. Define
  - a) Independent event
  - b) Complementary event
  - c) Collectively exhaustive events
- A card is drawn from an ordinary deck of 52 playing cards. Find the Probability that
  - a) Card is a jack of heart
  - b) Card is a ten or a spade
- iii. For continuous random variable

$$f(x) = \begin{cases} x^2/3 & -1 < x < 2\\ 0 & otherwise \end{cases}$$

- a) Verify that f(x) is a density function
- b) Find P(0 < x < 1).
- iv. Suppose that A and B are mutually exclusive events for which P(A) = 0.3 and P(B) = 0.5. What is the probability that
  - a) either A or B occurs
  - b) A occur but B does not
  - c) both A and B occur
- v. Determine the value c so that the following function can serve as a probability distribution of the discrete random variable X:

$$f(x) = c {2 \choose x} {3 \choose 3-x}$$
 for  $x = 0.1,2$ .

### Answer the following questions.

- Q2a) In a certain assembly plant three machines, A, B & C make 30%, 45% and 25% (6+4) respectively, of the products. It is known from the past experience that 2%, 3% and 2% of the products made by each machine, respectively are defective. If a product were chosen randomly and found to be defective. What is the probability that is was made by the machine C?
  - b) In a certain town, 40% of the eligible voters prefer candidate A, 10%. Prefer candidate B, and the remaining 50% have no preference. You randomly sample 10 eligible voters. What is the probability that 4 will prefer candidate A, 1 will prefer candidate B, and the remaining 5 will have no preference?
- Q3 Let X and Y be two discrete random variables with the following joint p.d. (10)

Y	1	3	5	g(x)
2	0.10	0.20	0.10	0.40
4	0.15	0.30	0.15	0.60
h(y)	0.25	0.50	0.25	1

Find E(X), E(Y), E(XY), E(2X-3Y).

- Q4.a) If X follows binomial distribution with n=20 and p=0.45. Calculate
  - i) P(X = 10)
  - ii)  $P(5 \le X \le 9)$
  - b) Define the normal distribution and list its key properties.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

**Paper: Front Office Operations and Management** 

Course Code: THM-103N

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

- (10x3=30)
- 1. Explain the significance of Front Office Department in hotel.
- 2. List any four major classifications of hotels based on ownership.
- 3. What are the key elements of effective communication in the front office?
- 4. Mention two ways to handle a dissatisfied guest professionally.
- 5. What is yield management?
- 6. Differentiate between guaranteed and non-guaranteed reservations.
- 7. Define rack rate and corporate rate.
- 8. State Cost Rate Formula.
- 9. List two common methods of guest payment at check-out.
- 10. What is the role of upselling in front office operations?
- Q.2. Answer the following questions.

- Discuss the evolution of the hotel industry and explain the major hotel categories with suitable examples.
- Describe the reservation process step-by-step and explain how technology has enhanced this process.
- Explain guest accounting procedures in detail and describe how various payment methods are processed during check-out.

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Paper: Tourism Concepts & Principles

Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: THM-104N

Answer the following short questions.

(10x3=30)

- 1. Which sector is most related to tourism?
- 2. Name two main types of tourism.
- 3. How does cultural tourism help local people?
- 4. Name key principles of eco-tourism.
- 5. Give features of community-based tourism.
- 6. What is community-based tourism?
- 7. Mention main goals of sustainable tourism.
- 8. Give one example of a sustainable tourism practice.
- 9. What is the concept of responsible tourism
- 10. What is public-private partnership (PPP) in tourism?

Answer the following questions. Q.2.

- 1. Define tourism. Explain the different concepts of tourism with suitable examples.
- 2. What is cultural tourism? Describe its importance and how it helps preserve local culture.
- 3. Explain the concept of eco-tourism. How does eco-tourism benefit the environment and local communities?

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AD (2 Years) & BS (4 Years) Degree Program/Second Semester–Spring 2025

Paper: Introduction to Marketing Course Code: UE-272N

Roll No.

Time: 3 Hrs. Marks: 60

### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions.

(6x5=30)

- I. Direct and online marketing in promotion?
- II. Market Targeting and Product Posting.
- III. Consumer Markets
- IV. Psychological pricing
- V. Packaging and labeling.
- VI. Product Development Stages.

Answer the following questions.

- Q.No.2: Write a detailed note on the Pricing Products: Pricing Consideration and Approaches.
- Q.No.3: Write a detailed note on the Distribution Channel and Logistics Management.
- Q.No.4: Write a detailed note on the Consumer Buyer Behavior.

Paper: Animal Diversity - II

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: ZOOL-105N

#### Answer the following short questions. Q.1.

(6x5=30)

- A. What are the general characteristics of Echinoderms?
- Name the main classes within Echinoderms.
- C. How are Enteropneusta characterized?
- Explain the function of the water vascular system in Echinoderms.
- E. Define Protochordates and name the two main subgroups.
- F. Define Hemichordates and name their two main classes.

#### Answer the following questions.

(3x10=30)

Questions: 2. Discuss the evolutionary history and classification of Echinoderms, highlighting their diversity and significance in marine ecosystems.

Questions: 3. Discuss the ecological roles of Protochordates in marine ecosystems.

Questions: 4. Evaluate the importance of Deuterostomes (Echinoderms, Protochordates, and Hemichordates) in understanding the evolutionary history of life on Earth. How do their unique features contribute to biodiversity in marine ecosystems?

Paper: Biological Techniques

AD (2 Years) & BS (4 Years) Degree Program/Second Semester-Spring 2025

Roll No.

Time: 3 Hrs. Marks: 60

#### THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Course Code: ZOOL-107N



- i. Transverse and Longitudinal Section
- ii. Paper Chromatography
- iii. Normality and Molality
- iv. Dark field Microscopy
- Wet mount v.
- Filtration vi.

Answer the following questions.

- Q. 2 Discuss phase contrast and confocal microscopy in detail. Support your answer with suitable sketches
- Q.3 Write detail note on UV-Visible spectrophotometer.
- Q.4 Give comprehensive note on Polymerase chain reaction.