



Version No.			

ROLL NUMBER					

- ○ ○ ○
 ① ① ① ①
 ② ② ② ②
 ③ ③ ③ ③
 ④ ④ ④ ④
 ⑤ ⑤ ⑤ ⑤
 ⑥ ⑥ ⑥ ⑥
 ⑦ ⑦ ⑦ ⑦
 ⑧ ⑧ ⑧ ⑧
 ⑨ ⑨ ⑨ ⑨

- ○ ○ ○ ○ ○ ○ ○
 ① ① ① ① ① ① ① ①
 ② ② ② ② ② ② ② ②
 ③ ③ ③ ③ ③ ③ ③ ③
 ④ ④ ④ ④ ④ ④ ④ ④
 ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤
 ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥
 ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦
 ⑧ ⑧ ⑧ ⑧ ⑧ ⑧ ⑧ ⑧
 ⑨ ⑨ ⑨ ⑨ ⑨ ⑨ ⑨ ⑨

Answer Sheet No. _____

Sign. of Candidate _____

Sign. of Invigilator _____

پرچہ فائن آرٹ یازدہم

امتحان 2022

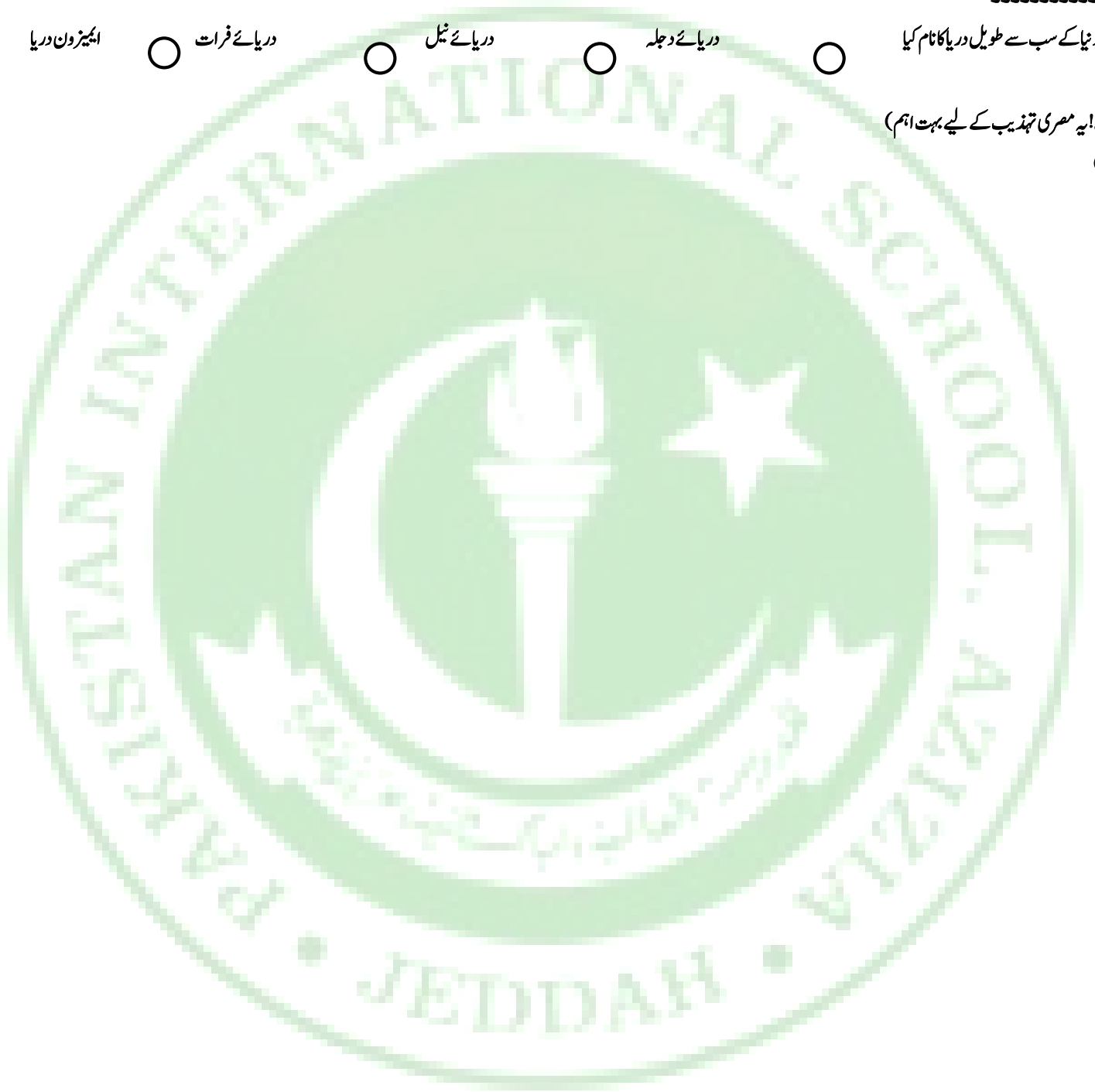
حصہ اول کل نمبر ۱۰

وقت: 20 منٹ

نوٹ:- حصہ اول لازمی ہے۔ اس کے جوابات اسی صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال ممنوع ہے۔ سوال نمبر ۱: ہر جز کے سامنے دیے گئے درست دائرہ کو پر کریں۔

- ۱۔ وادی سندھ کی تہذیب کا اسکرپٹ تھا: بوسٹرو فیڈن کھروستی براہمی کوئی نہیں۔
- ۲۔ مندرجہ ذیل میں سے کون سا وادی سندھ کی تہذیب میں تعمیر کے لیے استعمال ہوتا تھا؟ پتھر مٹی بھٹی میں پکی اینٹیں لکڑی
- ۳۔ موہنجوداڑو سے ملنے والا رقصہ کا مجسمہ _____ کا بنا ہوا تھا۔ چونا پتھر شیٹارٹ کانسی ٹیراکوٹا
- ۴۔ اب تک کون سا مقبرہ چوروں کے ہاتھ سے محفوظ ہے؟ التامیرا طوطنخامن پارتھینن ان میں سے کوئی نہیں۔
- ۵۔ مصری لکھنے کے لیے کون سا مواد استعمال کرتے تھے؟ پاپائرس مٹی پتھر پودے
- ۶۔ سپیلیو تھک کا سنہری دور کون سا دور تھا؟ سولٹرین میگڈالینین اورینٹین کوئی نہیں۔
- ۷۔ وادی سندھ کی تہذیب کے مندرجہ ذیل مقامات میں سے کس جگہ پر داڑھی والے شخص کا مجسمہ ملا؟ روپڑ کالی۔نگن موہنجوداڑو کوٹ ڈبچی

- 8۔ ونیس ~ کف ویلن ڈراف کا مشہور بہت پر
دور میں بنایا گیا تھا۔
- 9۔ مصری تہذیب میں تین قسم کی عمارتیں
تعمیر کی گئیں۔ اہرام، مستتبہ اور
- 10۔ دنیا کے سب سے طویل دریا کا نام کیا
ہے؟
اشارہ ایہ مصری تہذیب کے لیے بہت اہم
تھا۔
- Eolithic Paleolithic Neolithic Mesolithic
- راکٹ ٹاورز اسٹوپا عظیم غسل
- مقبرے
- ایمیزون دریا دریائے فرات دریائے نیل دریائے دجلہ





Pakistan International School
Half Yearly Examination 2022
Fine Arts: XI

Time allowed: 2.10 hours

Total Marks: 40

Note: Answer any Eight parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 8*3= 24)

- ۱۔ ہیر و گلانی کی تعریف کریں۔
- ۲۔ راک کٹ ٹومب ریلیف اور مجسمہ سازی کی بہترین مثال ہے۔ تعریف کریں۔
- ۳۔ وینس آف ویلن ڈراف کیا ہے؟
- ۴۔ ماہرین نے پتھر کے زمانے کو کتنے ادوار میں تقسیم کیا؟ نام لکھیں۔
- ۵۔ خوفو کے عظیم اہرام کے منصوبے کو لیبل کریں اور اس کی وضاحت کریں۔
- ۶۔ التامیرا کے غاروں پر ایک مختصر نوٹ لکھیں۔
- ۷۔ وادی سندھ کے مٹی کے برتن آرٹ کا بہترین نمونہ تھے۔ مختصراً بیان کریں۔
- ۸۔ وادی سندھ کے عظیم حمام کی وضاحت اور لیبل کریں۔
- ۹۔ طوطنخامن کے مقبرے کے فن تعمیر کی وضاحت کریں۔
- ۱۰۔ وادی سندھ کی تہذیب کے دو اہم شہروں کے بارے میں لکھیں۔
- ۱۱۔ غار کی پینٹنگز کی اہم خصوصیات کو قلم بند کریں۔

SECTION – C (Marks 16)

- نوٹ: کسی بھی دو (2) سوالات کے تفصیل سے جواب دیں۔ کل نمبر (16) = 8*2
- سوال نمبر ۲۔ وادی سندھ میں فن اور دستکاری میں مہروں کا بہت بڑا حصہ تھا۔ اس پر تفصیلی نوٹ لکھیں۔
- سوال نمبر ۳۔ متابہ اور راک کٹ مقبروں میں کیا فرق ہے؟ وضاحت کریں اور لیبل کریں۔
- سوال نمبر ۴۔ غاری مصوری پر تفصیلی نوٹ تحریر کریں۔ نیز غاروں میں ہونے والی مصوری کی ٹیکنیک بھی لکھیں۔

Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Principles of Economics HSSC–I Half Yearly Examination 2022

SECTION – A (Marks 15)
Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. Relationship between price and quantity demanded is called:	<input type="radio"/> Demand schedule	<input type="radio"/> Demand curve	<input type="radio"/> Law of demand	<input type="radio"/> Assumptions of law of demand
2. Demand for the goods which have different uses, is:	<input type="radio"/> More elastic	<input type="radio"/> Less elastic	<input type="radio"/> Infinity elastic	<input type="radio"/> Zero elastic
3. Finance minister imposes tax on the goods having less elastic demand:	<input type="radio"/> At low rate	<input type="radio"/> At high rate	<input type="radio"/> At the same rate	<input type="radio"/> At zero rate
4. Total utility is maximum when marginal utility is:	<input type="radio"/> Positive	<input type="radio"/> Negative	<input type="radio"/> Zero	<input type="radio"/> Minimum
5. Unity method to measure elasticity of supply is presented by:	<input type="radio"/> Adam Smith	<input type="radio"/> Robbins	<input type="radio"/> Marshall	<input type="radio"/> Farguson
6. Supply curve shifts due to better technique of production:	<input type="radio"/> Rightward	<input type="radio"/> Leftward	<input type="radio"/> Does not change	<input type="radio"/> Vertical
7. The cause of shifting of supply curve is:	<input type="radio"/> Change in price	<input type="radio"/> Other factors	<input type="radio"/> Change in tax	<input type="radio"/> Change in income
8. If supply of a commodity is fixed, it is called:	<input type="radio"/> Market supply	<input type="radio"/> Short period supply	<input type="radio"/> Long period supply	<input type="radio"/> Middle period supply
9. Which factor cannot be stored?	<input type="radio"/> Land	<input type="radio"/> Labour	<input type="radio"/> Capital	<input type="radio"/> Organization

-
10. Who does determine the reserve price? Buyer Seller Government District administration
-
11. In which direction demand and supply curves move? Same Opposite Parallel Horizontal
-
12. Feature of a commodity to satisfy human want, is called: Value Usefulness Utility Wealth
-
13. Which laws are conditional? State Economic Scientific Moral
-
14. Which one is not studied in micro economics? National income Consumer behaviour Market equilibrium Firm's equilibrium
-
15. Founder of classical school of thought was: Adam Smith Marshall Robbins Keynes
-





Pakistan International School
Half Yearly Examination 2022
Principles of Economics HSSC–I

Time allowed: 2.40 hours

Total Marks: 60

Note: Answer any Nine parts from Section ‘B’ and attempt any two questions from Section ‘C’ on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B

(Marks: 9×4=36)

Q2. Answer any Nine parts. The answer to each part should not exceed 5 to 6 lines.

- i. Economics is a social science. Why?
- ii. What is the difference between Utility & satisfaction?
- iii. Differentiate between supply & stock.
- iv. Write five determinants of elasticity of supply.
- v. Mention four characteristics of labour.
- vi. Land is immobile. Explain.
- vii. What is meant by factors of production?
- viii. State the meaning of joint demand.
- ix. Explain four limitations of law of Equi marginal utility.
- x. Elaborate the meaning of normal price.
- xi. In how many parts Prof. Adam Smith has divided his book “Wealth of nations”?
- xii. Write any five causes of change in demand.

SECTION – C

(Marks: 2×12=24)

Q3. Attempt any two questions. All questions carry equal marks.

- i. Describe law of demand and explain it with the help of table and diagram. Also describe the exceptions and assumptions of law of demand.
- ii. Explain law of diminishing marginal utility. Also describe its assumptions and exceptions as well as its practical importance.
- iii. Describe the importance and advantages of economics.

Version No.			

ROLL NUMBER							



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Fine Arts HSSCI
Half Yearly Examination 2022
SECTION – A (Marks 10)
Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. The Script of Indus Valley Civilization was :	<input type="radio"/>	Boustrophedon	<input type="radio"/>	Kharosthi	<input type="radio"/>	Brahmi	<input type="radio"/>	None
2. Which of the following was used for construction in Indus Valley Civilization?	<input type="radio"/>	Stone	<input type="radio"/>	Mud	<input type="radio"/>	Burnt bricks	<input type="radio"/>	Wood
3. The figure of a dancing girl found at Mohenjo-daro was made up of :	<input type="radio"/>	Lime Stone	<input type="radio"/>	Steatite	<input type="radio"/>	Bronze	<input type="radio"/>	Terracotta
4. Which tomb is protected from the hands of thieves until now?	<input type="radio"/>	Alta mira	<input type="radio"/>	Tutankhamen	<input type="radio"/>	Parthenon	<input type="radio"/>	None of these
5. What material did the Egyptians use to write?	<input type="radio"/>	Papyrus	<input type="radio"/>	Clay	<input type="radio"/>	Stone	<input type="radio"/>	Plants
6. Which era was the golden period of Paleolithic?	<input type="radio"/>	SOLUTREAN	<input type="radio"/>	MAGDALANEAN	<input type="radio"/>	AURIGNACIAN	<input type="radio"/>	None
7. In which of the following sites of Indus Valley Civilization, a statue of a bearded man was found?	<input type="radio"/>	Ropar	<input type="radio"/>	Kalibangan	<input type="radio"/>	Mohenjo-daro	<input type="radio"/>	Kot Diji
8. The most famous idol of Venus made in the Upperperiod	<input type="radio"/>	Mesolithic	<input type="radio"/>	Neolithic	<input type="radio"/>	Paleolithic	<input type="radio"/>	Eolithic
9. Three type of buildings were constructed in Egyptian Civilization Pyramid, Mastaba and.....	<input type="radio"/>	The great Bath	<input type="radio"/>	Stupa	<input type="radio"/>	Towers	<input type="radio"/>	Rock cut tombs
10. What is the name of the longest river in the world? (Hint! It was very important for the Egyptian civilization.	<input type="radio"/>	Tigris River	<input type="radio"/>	Nile River	<input type="radio"/>	Euphrates River	<input type="radio"/>	Amazon River



Pakistan International School
Half Yearly Examination 2022
Fine Arts HSSCI

Time allowed: 2.10 hours

Total Marks: 40

Note: Answer any Eight parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 24)

8x3=24

Q2. Attempt any eight parts. All part carry equal marks.

- i. Define Hieroglyph.
- ii. Rock cut Tomb is great of example of relief and sculpturing. Define.
- iii. What is Venus of Willendorf?
- iv. In how many periods the experts divided the Stone Age? Write names.
- v. Label and explain plan of The Great Pyramid of Khufu.
- vi. Write a short note on caves of Alta Mira.
- vii. Pottery of Indus valley was the best example of art. Briefly explain.
- viii. Explain and label The Great Bath of Indus valley.
- ix. Describe architecture of tomb of Tutankhamen.
- x. Write about two main cities of Indus valley civilization.
- xi. Pen down the main features of cave paintings.

SECTION – C (Marks-16)

Note: Answer any two (2) questions in detail. Total Number (16 = 2 *8)

- Q3. Seals were the great contribution of arts and craft in Indus Valley. Write a detailed note it .
- Q4. What is the difference between Mastaba and Rock cut tombs? Explain and Label.
- Q5. Write detailed notes on cave paintings. Also write the technique of cave painting.

Version No.			

ROLL NUMBER					

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

PSYCHOLOGY HSSC–I

Half Yearly Examination 2022

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے والے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال ممنوع ہے۔

SECTION – A (Marks 20)

Time allowed: 20 Minutes

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. The word Psychology is derived from.....? لفظ سائیکالوجی کہاں سے آیا ہے۔	<input type="radio"/> Arabic عربی	<input type="radio"/> English انگریزی	<input type="radio"/> French فرانسیسی	<input type="radio"/> Greek یونانی
2. The word "Psyche" means? لفظ "سائک" کا مطلب؟	<input type="radio"/> Talk بات	<input type="radio"/> Laugh ہنسی	<input type="radio"/> Heart دل	<input type="radio"/> Soul روح
3. Who established the first experimental lab of psychology? کس نے پہلی نفسیاتی تجربات کی لیبارٹری بنائی؟	<input type="radio"/> William James ویلیئم جیمز	<input type="radio"/> Wilhelm Wundt ویلیئم ونٹ	<input type="radio"/> Pavlov پالو	<input type="radio"/> Skinner سکٹر
4. What is the subject matter of modern Psychology? جدید نفسیات کا موضوع کیا ہے؟	<input type="radio"/> Consciousness شعور	<input type="radio"/> Soul روح	<input type="radio"/> Mind ذہن	<input type="radio"/> Behavior and mental processes روپے اور ذہنی عمل
5. Which one is the first and last goal of psychology? نفسیات کا پہلا اور آخری مقصد کیا ہے؟	<input type="radio"/> Explanation and Control وضاحت اور کنٹرول	<input type="radio"/> Prediction and Control پیش گوئی اور کنٹرول	<input type="radio"/> Explanation and Prediction وضاحت اور پیش گوئی	<input type="radio"/> Description and Modification وضاحت اور ترمیم
6. Mind is.....? ذہن کیا ہے؟	<input type="radio"/> Private نجی	<input type="radio"/> Social سماجی	<input type="radio"/> Both A and B اسے اور بی دونوں	<input type="radio"/> None of these کوئی نہیں
7. Logos literally means.....? لوگوس کا مطلب؟	<input type="radio"/> Knowledge علم	<input type="radio"/> Information معلومات	<input type="radio"/> Talk بات	<input type="radio"/> Study پڑھائی

8. Which branch of psychology explains the relationship between independent and dependent variable?
نفسیات کی کونسی شاخ منحصر اور غیر منحصر تغیرات کے درمیان تعلق کی وضاحت کرتی ہے؟
- Social psychology سماجی نفسیات Child psychology بچوں کی نفسیات Experimental psychology تجرباتی نفسیات All of these تمام
9. Experimental psychology studies the effects of?
تجرباتی نفسیات کس کے اثرات کا مطالعہ کرتی ہے؟
- Dependent variable منحصر متغیر Independent variable غیر منحصر متغیر Internal variable اندرونی متغیر External variable بیرونی متغیر
10. Who gave the laws of organization in perception?
کس نے ادراک میں تنظیم کے قوانین دیے؟
- Kohler کوہلر Kofka کوٹکا Wertheimer ورٹھمر Freud فرائڈ
11. The form of memory that requires acknowledging that a given stimulus has been encountered before, it is called ?
یادداشت کی وہ شکل جس میں یہ تسلیم کرنے کی ضرورت ہوتی ہے کہ ایک محرک کا پہلے بھی سامنا ہو چکا ہے، کیا کہلاتی ہے؟
- Recall یاد کرنا Relearning دوبارہ سیکھنا Retention برقرار رکھنا Recognition پہچان
12. According to _____ psychology is the study of consciousness?
کس کے مطابق نفسیات شعور کی تعلیم ہے؟
- William James ویلیئم جیمز Sigmund Freud سگمنڈ فرائڈ John B. Watson جون بی واٹسن Max Wertheimer میکس ورٹھمر
13. A clinical psychologist deals with diagnosis and treatment of:
طبی ماہر نفسیات کس کے متعلق تشخیص اور علاج کرتا ہے؟
- Physical illness جسمانی بیماری Neurological illness اعصابی بیماری Common illness عام بیماری Mental illness ذہنی بیماری
14. The branch of psychology which deals with law-breaking and anti-social behavior is?
نفسیات کی کونسی شاخ قوانین توڑنے اور غیر سماجی رویوں کا بتاتی ہے؟
- Personality psychology شخصیت کی نفسیات Criminal psychology مجرمانہ نفسیات Developmental psychology ترقیاتی نفسیات Social psychology سماجی نفسیات

15. Wilhelm Wundt established the first _____ of psychology?
 ویلم ونٹ نے نفسیات کی کیا پہلی چیز بنائی؟
- Laboratory لیبارٹری Science Club سائنس کلب Foundation فاؤنڈیشن Society سوسائٹی
-
16. The first step in any experiment is the formulation of:
 کسی بھی تجربات میں پہلا قدم کس کی تشکیل ہے؟
- Group گروپ Hypothesis مفروضہ Variables متغیرات Problem مسئلہ
-
17. Which one of the following is NOT the part of research methodology?
 ان میں سے کونسا تحقیقی طریقہ کار کا حصہ نہیں ہے؟
- Experiment تجربہ Observation تحقیق Diagnosis تشخیص Survey سروے
-
18. Which part of Neuron receives the messages?
 نیورون کا کونسا حصہ پیغامات وصول کرتا ہے؟
- Cell body سیل باڈی Dendrites ڈینڈرائٹس Axon ایکسون Terminal endings ٹرمینل اختتام
-
19. Associative neurons are present _____ the Efferent and Afferent neurons.
 ایسوسی ایٹو نیورون ایفیرنٹ اور ایفیرنٹ _____ موجود ہوتے ہیں؟
- Between درمیان میں Before پہلے Adjacent قریب Besides ساتھ
-
20. Vitreous humor is present in?
 وٹرس ہومر کس میں ہوتا ہے؟
- Cornea کازنیا Blind spot بلائنڈ سپاٹ Retina ریشینا Optic nerve اوپٹک نرو



Pakistan International School
Half Yearly Examination 2022
PSYCHOLOGY HSSCI

Time allowed: 2.40 hours

Total Marks: 65

Note: Answer any Eight parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (40 Marks)

Q#2. Attempt any Eight parts from the following:

8x5=40

- i. Explain Goals of psychology with examples.
نفسیات کے مقاصد کو مثالوں کے ساتھ بیان کریں۔
- ii. Enlist duties of Industrial or Educational psychologist?
صنعتی یا تعلیمی ماہر نفسیات کے فرائض کی فہرست بنائیں؟
- iii. What are variables? describe its types.
متغیرات کیا ہیں؟ اس کی اقسام بیان کریں
- iv. Describe Structure and functions of a neuron.
نیوران کی ساخت اور افعال بیان کریں
- v. Briefly explain "Naturalistic method of research".
تحقیق کا قدرتی طریقہ "مختصراً بیان کریں۔"
- vi. Elaborate the causes of attention.
توجہ کے اسباب کی وضاحت کریں۔
- vii. Pen down any five Subjective and objective factors of perception.
ادراک کے کسی بھی پانچ موضوعی اور معروضی عوامل کو قلم بند کریں۔
- viii. Explain any 5 laws of perceptual organization.
ادراک کی تنظیم کے کسی بھی 5 قوانین کی وضاحت کریں۔
- ix. Draw a labelled diagram of Ear.
کان کا لیبل والا خاکہ بنائیں۔
- x. How can you explain Observational method?
آپ مشاہداتی طریقہ کی وضاحت کیسے کر سکتے ہیں؟
- xi. Write down the best definition of psychology with reasons.
نفسیات کی بہترین تعریف وجوہات کے ساتھ لکھیں۔

Section –C (marks 25)

Note: Attempt all questions.

Q3. Explain structure and functions of CNS with the help of diagram. (13)

خاکہ کی مدد سے مرکزی اعصابی نظام کی ساخت اور افعال کی وضاحت کریں۔

Q4. Write a detailed note on causes of Illusion. (12)

وہم کی وجوہات پر ایک تفصیلی نوٹ لکھیں۔

OR

Describe survey method in detail.

سروے کے طریقہ کار کو تفصیل سے بیان کریں۔



Version No.			

ROLL NUMBER							



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Principle of Accounting HSSC-I
Half Yearly Examination 2022
SECTION – A (Marks 20)
Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔
 لیڈ پینسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

- What is the purpose of any legal activity for the sake of profit called?

<input type="radio"/> Jobs	<input type="radio"/> Profession	<input type="radio"/> Business	<input type="radio"/> Wage
----------------------------	----------------------------------	--------------------------------	----------------------------
- What is the primary function in accounting?

<input type="radio"/> Book Keeping	<input type="radio"/> Recording	<input type="radio"/> Classifying	<input type="radio"/> All of these
------------------------------------	---------------------------------	-----------------------------------	------------------------------------
- What is discount allowed called?

<input type="radio"/> Trade discount	<input type="radio"/> Cash Discount	<input type="radio"/> Discount allowed	<input type="radio"/> Discount received
--------------------------------------	-------------------------------------	--	---
- What is termed used for unsold in business?

<input type="radio"/> Demand	<input type="radio"/> Supply	<input type="radio"/> Stock	<input type="radio"/> Sale
------------------------------	------------------------------	-----------------------------	----------------------------
- Whom credit purchased are made are called?

<input type="radio"/> Creditor	<input type="radio"/> Debtor	<input type="radio"/> Banker	<input type="radio"/> Businessman
--------------------------------	------------------------------	------------------------------	-----------------------------------
- What are resources owned by business called?

<input type="radio"/> Capital	<input type="radio"/> Assets	<input type="radio"/> Liabilities	<input type="radio"/> Equities
-------------------------------	------------------------------	-----------------------------------	--------------------------------
- How can we measure all the events related to business?

<input type="radio"/> KG,s	<input type="radio"/> Money	<input type="radio"/> Quantity	<input type="radio"/> Quality
----------------------------	-----------------------------	--------------------------------	-------------------------------
- How many different stages are there in accounting cycle?

<input type="radio"/> Documenting	<input type="radio"/> Recording	<input type="radio"/> Summarizing	<input type="radio"/> All of above
-----------------------------------	---------------------------------	-----------------------------------	------------------------------------
- What is the mode of payment for bill of exchange?

<input type="radio"/> Cash basis	<input type="radio"/> Credit Basis	<input type="radio"/> Bank basis	<input type="radio"/> Reserve basis
----------------------------------	------------------------------------	----------------------------------	-------------------------------------
- What is a period of timed after which bill become pay called?

<input type="radio"/> Grace days	<input type="radio"/> Tenor	<input type="radio"/> Usance	<input type="radio"/> Maturity
----------------------------------	-----------------------------	------------------------------	--------------------------------

11. What are the extra three days given to acceptor called?
 Days of Grace Days of Tenor Days of Bill receivable Days of bill payable
-
12. How many parties are involved in case of discounting bill?
 Two Three Four None of these
-
13. A trader whose assets exceed from his liabilities are called?
 Debtor Creditor Solvent Insolvent
-
14. Who prepared pass book?
 Debtor Creditor Banker Customer
-
15. Which book is required for deposits?
 Cheque Pay in slip Pass book Personal Book
-
16. Which entries recorded on both sides of cash?
 Simple entry Compound entry combined entry Contra entry
-
17. Which book is a subsidiary journal and ledger.
 Cash Book Business Book Book keeping Record Book
-
18. Which types of accounts related to properties?
 Personal Acc Nominal Acc Real Acc Current Acc
-
19. Which type of accounts related to expenses?
 Personal Acc Nominal Acc Real Acc Current Acc
-
20. Which books shows finalize transaction record?
 Cash Book Journal Ledger Trail Balance



Pakistan International School
Half Yearly Examination 2022
Principle of Accounting HSSCI

Time allowed: 2.40 hours**Total Marks: 80**

Note: Answer any **TEN** parts from Section 'B' and attempt any **ONE** questions from Section (C Part I) and **Three** from (C Part II) on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 30)**Q 2 Attempt any TEN parts. The answer to each part should not exceed 3 to 4 lines.**

- i) Define realization concept.
- ii) What is the difference between Trade discount and Cash discount?
- iii) What is the difference between accounting and accountancy?
- iv) Define Nominal and Real Account.
- v) Give rules of Debit & credit for assets and Expenses.
- vi) What is the difference between Journal & Ledger.
- vii) What is Trail Balance?
- viii) Define the term Drawer, Drawee and Payee.
- ix) What is meant by retiring of a bill under rebate?
- x) Define Noting Charges.
- xi) Distinguish between Pay in slip and cheque book.
- xii) Differentiate between double and treble column book.

SECTION – C (Marks 50)**Attempt the any one of the following Question. (20)****Q3. Record the following transactions in journal and post them in ledger and prepare trail Balance.**

2022		RS
Jan 1	Business Started with cash.	100,000
4	Goods purchased for cash From Sarwar.	30,000
7	Sold Goods to Naeem & Bros.	10,000
14	Paid Salaries	5,000
20	Commission received	450
25	Cash received from Naeem Bros in full settlement	9,900

Q4. From the following particular prepare a Treble column Cash Book.

2022		Rs
Jan 1: Cash in Hand		20,000
1: Cash at Bank		15,000
3: Goods Sold for cash		4500
5: Goods Bought from cash		9,000
8: Received a cheque from Farooq Rs 9650 in full settlement of his dues Rs 9800 And deposited into Bank.		
11: Paid to Zulfiqar cash Rs 5000 and a cheque for Rs 4700 in full settlement of his dues Rs 10000		
15: Cash received from M Kaleem 4900 in full settlement of his dues 5000.		
17: Paid cash to Adnan Rs 1950 in full clearance of his dues Rs 2000.		
20: Received a cheque from Asim Tufail Rs 3900 in full settlement of his dues 4000.		
25: Bank credited interest	500	
31: Bank debited bank charger	700	

(Part-II)

Note: Attempt all the Questions.

Q5. Show the effects of following transaction in accounting equation.

- a) Commenced business with cash Rs 1,00,000
- b) Purchased goods for cash Rs 20,000
- c) Purchased typewriter for cash Rs 10,000
- d) Rent paid in advance Rs 8500
- e) Commission received in advance Rs 1500
- f) Sold goods for cash Rs 10,000 costing Rs 8500.

Q 6: Journalize the following transactions.

- a) Mr Ajmal started business with Rs80000 cash Machinery worth 10,000 and stock worth Rs 40,000
- b) Deposit into bank Rs 45,000
- c) Bought goods on credit from Noor's sons Rs 20000
- d) Sold goods to Imran for Rs 12000
- e) Issued a cheque to Noor's sons of Rs 19800 full settlement of his account
- f) Received cash from Imran 11750 in full settlement of his account.

Q7: Pass the Journal entries in the Book of A,B and the Bank.

On the November 2021 A drew and B accepted a bill at two months. A sent the bill to his banker for collection. On the due date the bill was duly presented to the acceptor but he could not meet his acceptance. The bank paid Rs 25 as nothing charges on behalf of A.

.....

Version No.			

ROLL NUMBER						

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Biology HSSC–I Half Yearly Examination 2022

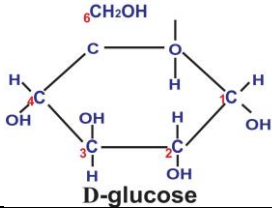
SECTION – A (Marks 17)
Time allowed: 25 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

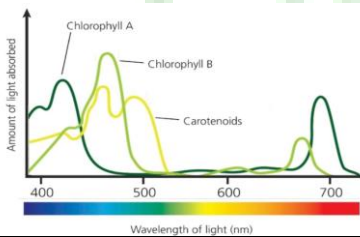
- | | | | | | | | | |
|--|-----------------------|---|-----------------------|---|-----------------------|--|-----------------------|--|
| 1. Which of the following cell structures contains the highest concentration of RNA? | <input type="radio"/> | Centriole | <input type="radio"/> | Lysosome | <input type="radio"/> | Chromosome | <input type="radio"/> | Nucleolus |
| 2. Combination of apoenzyme and coenzyme produces : | <input type="radio"/> | Prosthetic group | <input type="radio"/> | Holoenzyme | <input type="radio"/> | Enzyme | <input type="radio"/> | Isoenzyme |
| 3. Which statement correctly describes a property of water? | <input type="radio"/> | A relatively large amount of heat is needed to increase its temperature | <input type="radio"/> | At normal room temperature, its molecules are bound together by ionic bonds | <input type="radio"/> | The highest density of water occurs below its freezing point | <input type="radio"/> | Water acts as solvent for nonpolar molecules |
| 4. All of these are the properties of enzymes except : | <input type="radio"/> | Increase the need of activation energy | <input type="radio"/> | Increase the speed of chemical reaction | <input type="radio"/> | Some require cofactor for proper activity | <input type="radio"/> | Either highly specific or slightly less specific |
| 5. Which of the following illness is caused by a retrovirus? | <input type="radio"/> | Typhoid | <input type="radio"/> | Malaria | <input type="radio"/> | AIDS | <input type="radio"/> | Sleeping sickness |
| 6. Which one of the following is responsible for cyclosis? | <input type="radio"/> | Microtubule | <input type="radio"/> | Microfilament | <input type="radio"/> | Intermediate filament | <input type="radio"/> | None of them |
| 7. Fatty acids and glycerol are first absorbed by : | <input type="radio"/> | Lymph vessel | <input type="radio"/> | Villi | <input type="radio"/> | Blood capillaries | <input type="radio"/> | Hepatic portal vein |
| 8. A carbohydrase that digests sucrose into glucose and fructose is named as : | <input type="radio"/> | Maltase | <input type="radio"/> | Sucrase | <input type="radio"/> | Galactase | <input type="radio"/> | Lactase |

9. The enantiomer of D-glucose is D-galactose L-galactose Both of them None of them

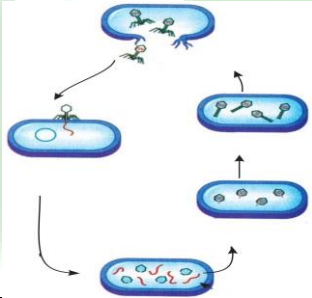


10. Enzyme trypsinogen is changed to trypsin by : Gastrin Enterokinase Secretin Hydrochloric acid

11. A technique used to determine the absorption of different wavelength of light by a particular chemical compound or a photosynthetic pigment. It is known as : Chromatography Spectrophotometry Electrophoresis Tissue culture



12. Which step in the lytic cycle follows attachment of virus and release of DNA into the cell? Production of lysosome Disintegration of host DNA Assemblage DNA replication



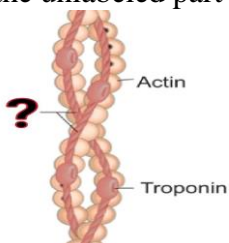
13. The reaction rate of salivary amylase with starch decreases as the concentration of chloride ions is reduced. Which of the following describe the role of the chloride ions? Allosteric inhibitors Cofactors Coenzyme Competitive inhibitor

14. Which vitamin is synthesized in the large intestine (colon) ? Vitamin B Vitamin K Vitamin A Vitamin C

15. Which of the following organelles store lipids in them? Amyloplasts Proteinoplasts Elaioplasts Chromoplasts

16. In a bacteriophage capsid, there are always : Ten pentons Eleven pentons Five pentons Twelve pentons

17. In the figure given below, label the unlabeled part : Tubulin Tropomyosin Vimentin Microtubule





Pakistan International School
Half Yearly Examination 2022
BIOLOGY - XI

Time allowed: 2.35 hours

Total Marks: 85

Note: Answer any Fourteen parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 42)

Q1. Attempt any fourteen parts from the following . All parts carry equal marks. Be brief and to the point. (14×3=42)

- i. Make a comparison between microfilaments and microtubules.
- ii. Explain feedback inhibition.
- iii. Describe the formation, structure and functions of the lysosomes.
- iv. Name the common types of fatty acids along with their condensed formula.
- v. Describe the structure of prions and name any two diseases caused by them.
- vi. Define and draw a labelled diagram of the ring forms of alpha and beta glucose.
- vii. Differentiate between competitive and non-competitive enzyme inhibitors.
- viii. Explain peristalsis with diagram.
- ix. Differentiate between chromatin and chromosome.
- x. Describe a steroid nucleus.
- xi. Write a note on appendix.
- xii. Bile juice contains no digestive enzymes, yet it is important for digestion. Why?
- xiii. Explain opportunistic diseases that may attack an AIDS victim.
- xiv. Write down the functions of large intestine.
- xv. Differentiate between purine and pyrimidine with structures.
- xvi. What are ribozymes?
- xvii. Justify why a virus must have a host cell to parasitize in order to complete its life cycle.
- xviii. Describe defaecation reflex in adults.
- xix. Describe causes, symptoms, prevention and treatment of hepatitis.
- xx. Write a note on anorexia nervosa.

SECTION – C (Marks 26)

Note: Attempt any two questions. All questions carry equal marks. (2×13=26)

- Q3.**
- a. Explain the external and internal structure of mitochondria. Draw its labelled diagram.
 - b. Describe the effect of temperature on the rate of enzyme action along with a graphical representation.
- Q4.**
- a. Write a note on villus. Explain its function and draw a labelled diagram.
 - b. Explain the formation of phosphodiester bond by giving examples.
- Q5.**
- a. Describe the structure of human immunodeficiency virus HIV with diagram. Explain its life cycle.
 - b. What is the structure of pancreas? Explain the functions of pancreas as an exocrine gland.

Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Business Mathematics HSSC–I
Half Yearly Examination 2022
SECTION – A (Marks 20)

Time allowed: 20 Min

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. What percentage Rs.84 is of Rs.400	<input type="radio"/>	22%	<input type="radio"/>	21%	<input type="radio"/>	23%	<input type="radio"/>	40%
2. The value of x in proportion 2:7::x:49 is	<input type="radio"/>	8	<input type="radio"/>	14	<input type="radio"/>	12	<input type="radio"/>	28
3. 8 men can dig a trench in 15 hrs, 6 men wil take	<input type="radio"/>	16hrs	<input type="radio"/>	20hrs	<input type="radio"/>	24hrs	<input type="radio"/>	28hrs
4. If a,b,c and d are in direct proportion then	<input type="radio"/>	ac=bd	<input type="radio"/>	ab=cd	<input type="radio"/>	a+b=c+d	<input type="radio"/>	ad=bc
5. The equation $ax^2 + bx + c = 0$ is called	<input type="radio"/>	linear	<input type="radio"/>	Quadratic	<input type="radio"/>	cubic	<input type="radio"/>	None
6. The solution set of $x^2 - 2x + 1 = 0$ is	<input type="radio"/>	{ 1 }	<input type="radio"/>	{-1}	<input type="radio"/>	{-1,1}	<input type="radio"/>	None
7. 5 times of a number is 150 .What is the number	<input type="radio"/>	220	<input type="radio"/>	155	<input type="radio"/>	145	<input type="radio"/>	30
8. Cost of the product is Rs.25 and sale price is Rs.40, then profit	<input type="radio"/>	Rs.20	<input type="radio"/>	Rs.15	<input type="radio"/>	Rs.13	<input type="radio"/>	Rs.18
9. If two linear equations in two unknowns have only one solution, then equations are	<input type="radio"/>	independent	<input type="radio"/>	Dependent	<input type="radio"/>	identical	<input type="radio"/>	none
10. The solution of $x+y =12$; $x-y=-2$ is	<input type="radio"/>	B.{(1,2)}	<input type="radio"/>	{(4,3)}	<input type="radio"/>	{(5,4)}	<input type="radio"/>	{(5,7)}



Pakistan International School
Half Yearly Examination 2022
Business Math HSSCI

Time allowed: 2.40 hours

Total Marks: 40

Note: Answer any Eight parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks)

Q#2. Attempt any EIGHT part of the following. 8x4=32

1. A milk man mixes milk with water in the ratio 7:2 respectively. He has 81 liters of mixed milk . what is quantity of pure milk?
2. A farmer has 840 acers of land for planting rice , wheat , cotton and fodder in the ratio 5:4:3:2 respectively .What are acers are used for each crop.
3. Solve the equation for the value of x $\frac{3x+2}{4} = \frac{2x+6}{5}$
4. Solve the equation by using quadratic formula $3x^2-9x+5=0$
5. Find two consecutive integers whose product is 56
6. The perimeter of a rectangle is 44 feet and its area is 112 square feet. Find the length and width of the rectangle.
7. Find the solution set of $x=y$ and $2x+y=3$
8. Mr. Babar sold an item for Rs. 6954 at a loss of 8.5%. Find the selling price of the item if he sold at 20% profit on sale
9. Solve the equation by completing square method $x^2+10x-2$
10. Aslam got 30 questions correct on a test with 75 questions. What percent did he have correct?

SECTION – C (Marks)

Solve two questions from the following

Q#3:

- a) 15 machines working 8 hours a days can produce 360 units in 6 days. If 3 of the machines are out of order. how many units could be produced by running the remaining machines 10 hours a day for 8 days?
- b) The price of a share in stock exchange dropped from Rs.62.50 to Rs.52.50 in a week. What was the percentage change in the price of share?

Q#4:

- a) A manufacturer offered $33\frac{1}{3}\%$ commission to an agent to sale his old stock. The agent received Rs. 15000 as commission. Find the amount received by the manufacturer.
- b) In a class of 92 students, the number of females is one less twice the number of males. How many females and how many male are there in the class?

Q#5:

- a) Solve $\frac{3x-1}{x+3} + \frac{3x+2}{x+1} = 3$
- b) A woman walks 20 km at A certain speed and then 10km at 3km/h faster, If the total time taken is 12 hrs. find her original speed

Version No.			

ROLL NUMBER						



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent.

Deleting/overwriting is not allowed.

Do not use lead pencil.

Q1. Fill the relevant bubble for each part. Each part carries one mark.

Chemistry HSSC–I Half Yearly Examination 2022

SECTION – A (Marks 17)

Time allowed: 25 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

- | | | | | |
|---|---|--|---|---|
| 1. What is the correct representation for an orbital which has an "n" value of 4 and an "l" value of 2? | <input type="radio"/> 4s | <input type="radio"/> 4p | <input type="radio"/> 4d | <input type="radio"/> 4f |
| 2. $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{SO}_3(\text{g})$
Removing $\text{O}_2(\text{g})$ will | <input type="radio"/> Shift equilibrium right | <input type="radio"/> shift equilibrium left | <input type="radio"/> decrease temperature | <input type="radio"/> have no change |
| 3. $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$
How many grams of hydrogen are produced if 120 g of Na are available? | <input type="radio"/> 5.2 g | <input type="radio"/> 2.6 g | <input type="radio"/> 690 g | <input type="radio"/> 45 g |
| 4. The cathode ray experiments led to which particle being discovered? | <input type="radio"/> Nucleus | <input type="radio"/> Proton | <input type="radio"/> Electron | <input type="radio"/> Neutron |
| 5. which type of acid and base that compose the following salt " NH_4CN " | <input type="radio"/> strong acid and strong base | <input type="radio"/> strong acid and weak base | <input type="radio"/> strong base and weak acid | <input type="radio"/> weak acid and weak base |
| 6. The unit of Kc for the following reversible reaction will be:
$3\text{Fe}(\text{s}) + 4\text{H}_2\text{O}(\text{g}) \rightleftharpoons \text{Fe}_3\text{O}_4(\text{s}) + 4\text{H}_2(\text{g})$
Which one is the unit of Kc? | <input type="radio"/> No unit | <input type="radio"/> $\text{mole}^2 \text{dm}^{-3}$ | <input type="radio"/> $\text{mole}^{-2} \text{dm}^{+6}$ | <input type="radio"/> $\text{mol}^{-1} \text{dm}^3$ |
| 7. Which model of the atom proposed that atoms were positive spheres with negative electrons in them? | <input type="radio"/> Heliocentric Model | <input type="radio"/> Solid Sphere Model | <input type="radio"/> Plum Pudding Model | <input type="radio"/> Planetary Model |

8. The difference in angular momentum of electron which jumps from 3rd orbit to 9th orbit of hydrogen atom will be: $3 (h / 2\pi)$ $3 (h / \pi)$ $6 (h / 2\pi)$ $6 (h / \pi)$
9. If Principal quantum number (n) = 3, the total magnetic quantum numbers (m) will be: 3 6 9 12
10. Light emitted or absorbed in form of energy packets called photons. What is the energy of photon? $E=hC$ $E= hc/\lambda$ $E = h\lambda$ $E = c/\lambda$
11. When two atoms bond with each other through overlapping of their sp^3 hybrid orbitals. Predict which one of the following statements best describes the nature of the bond between these atoms? This is a Pi (π) covalent bond This is a Sigma (σ) covalent bond This is ionic bond This is hydrogen bond
12. Quote what Mosely was able to determine with the discovery of X-Rays: The number of protons in target metal atom The number of neutrons in target metal atom The mass number of target metal atom The atomic mass of target metal atom
13. Analyze what is true for the following chemical reaction? $H_2(g) + I_2(g) \rightleftharpoons 2HI(g)$ $k_p > k_c$ $k_n < k_c$ $k_p = k_n$ $k_p > k_n$
14. The maximum number of electrons can be accommodated in a molecular orbital are----- 4 2 6 8
15. A base is a substance which will neutralize an acid. Which of these substances is not a base? Aqueous Ammonia Copper oxide Potassium Chloride Sodium Carbonate
16. What is the mass of two mole of flourine molecules? 38 g 76 g 106 g 127 g
17. When a catalyst is added to an equilibrium mixture, it decreases ----- Reverse reaction Forward reaction Concentration of reaction mixture It has no effect



Pakistan International School

Half Yearly Examination 2022

Chemistry HSSCI

Time allowed: 2.35 hours

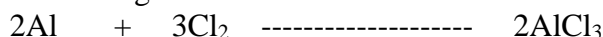
Total Marks: 68

Note: Answer any fourteen parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks: 14x3=42)

Q2. Attempt any fourteen questions from the following.

- How Can you make the distinction between limiting and excess reagent?
- How many covalent bonds are present in 9g of water?
- How Mosley used x-rays Spectrum to predict the atomic number of elements? Give one use of x-rays in medical field and chemistry
- The percentage yield of the following reaction is 85%.



How many grams of AlCl_3 will be actually obtained from 100g of aluminum metal.

(Atomic mass of Al =27, Cl = 35.5)

- Why Energy of 3d sub shell is greater than 4s?
 - A solution containing 0.13M potassium acetate and 0.07M acetic acid. Calculate the pH of buffer solution. The value of ionization constant for acid is 1.81×10^{-5} .
 - Calculate which one of the following mixtures will produce maximum amount of product for the following reaction
- $$\text{N}_2 + 3\text{H}_2 \longrightarrow 2\text{NH}_3$$
- 1 mole of N_2 and 3 mole of H_2
 - 2 mole of N_2 and 3 mole of H_2
- In the equilibrium $\text{PCl}_5(\text{g}) \rightleftharpoons \text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g}) \quad \Delta H = 90\text{KJ/mol}$
 - Predict the effect on the position of equilibrium if temperature is increased and pressure is decreased.
 - Why, Aqueous solution of Sodium carbonate is basic in nature while that of sodium chloride is neutral?
 - How K_{sp} helps to decide whether precipitation occur or no?
 - What is meant by bond energy? Enlist the factor effect Bond Energy..
 - Describe the allowed combinations of the n, l, and m quantum numbers when n = 4.
 - Prove that relationship $K_a \cdot K_b = K_w$

Types of Oxides						
Li	Be	B	C	N	O	F
Na	Mg	Al	Si	P	S	Cl
K	Ca	Ga	Ge	As	Se	Br
Rb	Sr	In	Sn	Sb	Te	I
Cs	Ba	Th	Pb	Bi	Po	At
A		B			C	

- Identify the type of oxide from the above table, discuss the reason why you labelled these name by chemical equation.
- A double bond is stronger than a single bond and triple bond is stronger than double bond. Justify it.
- 1,2 –dichloroethane has cis and trans isomers.
 - Draw the structure of these isomers
 - Which of them have dipole moment zero and why?
- Why energy of sigma $2p_x$ is higher than pi $2p_y$ and pi $2p_z$ in case of nitrogen MOT Diagram ?
- Calculate the no. of molecules of O_2 produced by the thermal decomposition of 490g of KClO_3 . (K=39amu, Cl = 35.5amu, O = 16amu)

20. Elaborate the rule which guide you for the filling of electron in degenerate orbitals

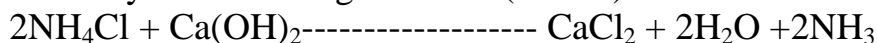
21. Calculate K_c for the synthesis of ammonia at 500°C . $K_p = 1.44 \times 10^{-5}$

SECTION – C (Marks) : 13x2=26)

Q.3

a. Derive the equation for the radius of nth orbit of hydrogen atom using Bohr's model. (7)

b. Ammonia Solvay process is used to manufacture sodium carbonate. During this process ammonia is recovered by the following reaction. (2+2+2)



When 100 g of ammonium chloride and 150 g calcium hydroxide are used then

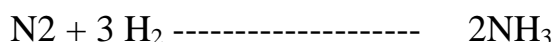
(At. Mass N=14 H=1 Cl= 35.5 Ca=40)

i. Calculate the mass in kg of ammonia produce during chemical reaction.

ii. Calculate the excess mass in gram of one of the reactants left unreacted

Q.4

Consider the following reaction:



A. Derive expression of K_c for the above reaction and calculate equilibrium concentration of N_2 . The equilibrium concentration of H_2 and NH_3 are 1.0 mol dm^{-3} and 0.5 mol dm^{-3} respectively. K_c of above reaction at 25°C is 1.85×10^{-3} . (4 +4)

B. which type of hybridization is in acetylene (C_2H_2) molecule. Also draw diagram of hybridized orbitals in this molecule. (5)

Q.5

A. In chemical industry a chemist need to keep the pH of solution constant for a long time, so suggest he should use what type of solution and how this solution act against acid and base to keep pH constant (3+4)

B. The species H_2O , NH_3 and CH_4 have bond angles of 104.5° , 107.5° , 109.5° respectively. Prove by VSEPR theory, by drawing their structures (6)

SUPPLEMENTARY TABLE

— 1SA-I 2208 —

Atomic No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Symbol	H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar	K	Ca
Mass No	1	4	7	9	11	12	14	16	19	20	23	24	27	28	31	32	35.5	40	39	40

Version No.			

ROLL NUMBER					



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Education HSSC–I Half Yearly Examination 2022 SECTION – A (Marks 20)

Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. Which change concerned concepts and information?
کونسی تبدیلی کا تعلق تصورات اور معلومات سے ہے؟

- cognitive behaviorist affective Competence
 وقوفی کردار بیت تاثراتی قابلیت

2. Which of the following process continues throughout the human life?
مندرجہ ذیل میں سے کون سا عمل کل تمام عمر جاری رہتا ہے

- Growth Developme Health Strength
 بالیگی نت صحت طاقت
 نشوونما

3. What is ultimate reality?
حقیقت اصل یہ کیا ہے

- universe Allah Human Knowledge
 کائنات اللہ تعالیٰ being علم
 انسان

4. School is an institution
اسکول ایک ادارہ ہے

- social education Political Economic
 سماجی تعلیمی سیاسی معاشی

5. Which, of the following plays the major role in determining the objectives of education?
مندرجہ ذیل میں سے کون تعلیمی مقاصد کے حصول میں اہم کردار ادا کرتا ہے

- ideology Values regulation Philosophy
 نظریہ حیات اقدار اصول فلسفہ

6. What is the IQ of a brilliant child?
ذہین بچوں کا مقیاس ذہانت کیا ہے؟

- 140 or above more than 90-109 110-139 less than 70
 140 سے زیادہ 90-109 سے زیادہ 110-139 سے زیادہ 70 سے کم

7. Taleem is a/an _____ word
تعلیم کس زبان کا۔ ایک لفظ ہے۔

- Arabic Urdu Persian Greek
 عربی اردو فارسی یونانی

8. Which education is provided in regular institutions?

کون سی تعلیم باقاعدہ اداروں میں حاصل کی جا سکتی ہے؟

formal
رسمی

formal and
informal
رسمی اور غیر رسمی

nonformal
غیر رسمی

Informal
نیم رسمی

9. Who said education is the continuous process of reconstructive and reorganization of experience?

کس نے کہا تعلیم تجربے کی مسلسل تعمیر نو اور تنظیم کا عمل ہے

John
Dewey
جان ڈیوی

Aristotle
ارسطو

Socrates
سقراط

Plato
پلاٹو

10. Curriculum has basic parts.

نصاب کے بنیادی حصے ہیں

Two
دو

four
چار

Three
تین

Six
چھ

11. How many abilities an individual process?

انسان کی کتنی صلاحیتیں ہیں؟

Four
چار

Five
پانچ

three
تین

Six
چھ

12. Learning is change in behavior.

تعلیم رویہ میں تبدیلی ہے

Quick
تیز

temporary
عارضی

beautiful
خوبصورت

Permanent
مستقل

13. Intelligence quotient refers to measure.

مقیاس ذہانت کی پیمائش کے لئے استعمال کیا جاتا ہے

Growth
بالیگی

intelligence
ذہانت

age
عمر

Psychology
نفسیات

14. An individual behavior develops due to harmony between heredity and

انسانی رویہ کی نشوونما میں وراثت اور کا باہمی تعلق ہے

school
سکول

Home
گھر

Teacher
استاد

Environment
ماحول

15. is the most authentic source of knowledge.

..... کے حصول کا سب سے معتبر ذریعہ ہے

Intellect
عقل

School
اسکول

revelation
وحی

Intuition
اسکول

16. Which aims refers to character development of a child?

کون سا مقصد بچے کے کردار کی نشوونما کرتا ہے

Cognitive
ذہنی

academic
پیشہ ورانہ

moral
روحانی

Social
سماجی

17. How many objectives of education are there in the educational system of Pakistan?

پاکستان کے نظام میں مقاصد تعلیم کتنے ہیں؟

Seven
سات

five
پانچ

Four
چار

Three
تین

18. is an emotional difference.

..... جذباتی اختلاف ہے

religion
مذہب

intelligence
ذہانت

culture
ثقافت

Tolerance
برداشت

19. What is the literal meaning of curriculum?

نصاب کا لغوی معنی کیا ہے

Path
راستہ

method of
teaching
طریقہ تدریس

Light
روشنی

Height
اونچائی

20. Which of the following is the most important element of education?

مندرجہ ذیل میں سے تعلیم کا سب سے اہم عنصر کونسا ہے

student
متعلم

teacher
استاد

curriculum
نصاب

Society
معاشرہ



Pakistan International School
Half Yearly Examination 2022
Education HSSCI

Time allowed: 2.40 hours

Total Marks: 80

Note: Answer any fifteen parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (50 Marks)

Q#2. Attempt any fifteen parts from the following:

- i) What is the literal meaning of education?
- ii) Outline the human abilities improved by education?
- iii) Define affective change.
- iv) Write a short note about educational psychology.
- v) Define Islamic concept of education.
- vi) Briefly discuss the rule of school in the society.
- vii) Define system of education.
- viii) Write a short note on agriculture education.
- ix) Enlist the foundations of education with definition.
- x) Identify three hadiths about the importance of education.
- xi) Demonstrate the role of teacher in education of process?
- xii) Define Heredity.
- xiii) Identify the stages of general education?
- xiv) Why it is necessary for the teacher to know individual difference?
- xv) Write economic gain of education.
- xvi) Specify reconstruction of social life?
- xvii) Describe the laws which determine the heredity traits.
- xviii) Recall effective teaching?
- xix) State the meaning of individual difference with examples.
- xx) What are the salient aspects of education?
- xxi) Define ultimate reality?

1- تعلیم کے لغوی معنی کیا ہیں؟

2- تعلیم انسان میں کون سی صلاحیتوں کو نکھارتی ہے؟

3- تاثراتی تبدیلی سے کیا مراد ہے؟

4- تعلیمی نفسیات کے متعلق بیان کریں۔

5- اسلامی تعلیم کا تصور سے کیا مراد ہے؟

6- معاشرے میں سکول کا کردار کیا ہے؟

7- نظام تعلیم سے کیا مراد ہے؟

8- زراعت کی تعلیم پر مختصر لکھیں۔

9- تعلیم کی بنیادیں لکھیں۔

10- تعلیم کی اہمیت پر تین احادیث لکھیں۔

11- تعلیمی عمل میں استاد کا کردار لکھیں۔

12- توارث سے کیا مراد ہے؟

13- عام تعلیم کی کتنی اقسام ہیں

14- استاد کے لیے انفرادی اختلافات کو جاننا کیوں ضروری ہے؟

15- تعلیم کے معاشی فوائد لکھیں۔

16- معاشرتی زندگی کی تشکیل نو سے کیا مراد ہے؟

17- توارث کو متعین کرنے کے لیے قانون لکھیں۔

18- موثر تدریس سے کیا مراد ہے؟

19- انفرادی اختلافات سے کیا مراد ہے؟

20- تعلیم کے نمایاں پہلو کیا ہے؟

21- حقیقت اصلیہ سے کیا مراد ہے؟

Attempt any ONE part.

1x5=5

1. Describe the relationship between philosophy and Education.

2. How many modes of education are there? Describe briefly.

مندرجہ ذیل میں سے کسی ایک جز کا جواب دیں۔

1- فلسفہ اور تعلیم کا باہمی تعلق بیان کریں۔

2- تعلیم کے اسالیب بیان کریں۔

Section -C (marks:30)

Note: Attempt any THREE questions. All questions carry equal marks.

Q3: Elaborate the principles of development.

Q4: Illustrate the elements of education in detail.

Q5: What are sources of knowledge? Describe in detail.

Q6: a) Enlist five physical and five emotional differences.

b) Relate mutual interaction between individual and society?

مندرجہ ذیل میں سے کسی تین جز کا جواب دیں۔ تمام سوالات کے نمبر برابر ہیں۔

سوال نمبر 3- نشوونما کے اصول تفصیل سے بیان کریں۔

سوال نمبر 4- تعلیم کے عناصر وضاحت سے بیان کریں۔

سوال نمبر 5- ذرائع علم کون سے ہیں؟ تفصیل سے لکھیں

سوال نمبر 6-

(الف) پانچ جسمانی اور پانچ جذباتی اختلافات لکھیں۔

(ب) فرد اور معاشرے کے باہمی تعلق کو بیان کریں۔

Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

English HSSC–I
Half Yearly Examination 2022
SECTION – A (Marks 20)
Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. Which one of the following sentences exemplifies alliteration?	<input type="radio"/> I wandered lonely as a cloud.	<input type="radio"/> Life is a highway	<input type="radio"/> Come and clean your closet, Sara.	<input type="radio"/> The wind howled in the night.
2. Thus, hardly had the new state come into being when came the Punjab and Delhi <u>holocaust</u> . The synonym of the underlined word is:	<input type="radio"/> Destruction	<input type="radio"/> Construction	<input type="radio"/> Salvation	<input type="radio"/> Assistance
3. Which one of the following sentences has an adjective clause?	<input type="radio"/> I don't know if Abid is at home.	<input type="radio"/> This is the girl who comes from Spain.	<input type="radio"/> They hiked before they ate dinner.	<input type="radio"/> I wonder where they have gone.
4. Which one of the following sentences has a transitive verb?	<input type="radio"/> I usually sleep well.	<input type="radio"/> A flock of birds is flying over our heads	<input type="radio"/> Help the poor.	<input type="radio"/> He laughed loudly.
5. Which one of the following sentences contains an example of a gerund?	<input type="radio"/> It was a very charming sight.	<input type="radio"/> A rolling stone gathers no moss.	<input type="radio"/> He is in the habit of smoking.	<input type="radio"/> Thinking all was safe, the child crossed the road.
6. Identify the sentence that has a collective noun?	<input type="radio"/> These chocolates and cakes are so delicious.	<input type="radio"/> Paris is the capital of France.	<input type="radio"/> We saw a flock of geese in the lake.	<input type="radio"/> Honesty is the best policy.
7. She was very frightened, when Asma saw a snake. It is an example of:	<input type="radio"/> Anaphoric reference	<input type="radio"/> Cataphoric reference	<input type="radio"/> Repetition	<input type="radio"/> Ellipsis
8. What do we call a struggle between opposing forces that is revealed through a character's thoughts and actions?	<input type="radio"/> Conflict	<input type="radio"/> Control	<input type="radio"/> Climax	<input type="radio"/> Fight

9. Which one of the following is in passive voice?	<input type="radio"/> They are reading books.	<input type="radio"/> I take exercise daily.	<input type="radio"/> We will be guided.	<input type="radio"/> Who did this?
10. Which of these sentences containing a modal verb has the same meaning as “Am I allowed to ask a question”?	<input type="radio"/> Must I ask a question?	<input type="radio"/> May I ask a question?	<input type="radio"/> Should I ask a question?	<input type="radio"/> Would I ask a question?
11. You can go home <u>since you are not well</u> . The underlined part is a/an	<input type="radio"/> Adjective Clause	<input type="radio"/> Adverb Clause	<input type="radio"/> Noun Clause	<input type="radio"/> Relative Clause
12. Which of the following sentences carries a relative pronoun?	<input type="radio"/> All of them laughed at him.	<input type="radio"/> Gambling has ruined many.	<input type="radio"/> She was the only student who knew the right answer.	<input type="radio"/> Let's eat something.
13. “Hope is the poor man’s bread.” Which figure of speech is used in this sentence?	<input type="radio"/> Ellipses	<input type="radio"/> Simile	<input type="radio"/> Metaphor	<input type="radio"/> Personification
14. We have enough money. Which kind of adjective is used in this sentence?	<input type="radio"/> Adjective of Number	<input type="radio"/> Adjective of Quantity	<input type="radio"/> Adjective of Quality	<input type="radio"/> Demonstrative Adjective
15. Identify the sentence implying the transitional device of comparison:	<input type="radio"/> He gives orders as if he were my boss	<input type="radio"/> He missed the train because of heavy snow.	<input type="radio"/> You will not succeed unless you work hard.	<input type="radio"/> I will wait till the rain stops.
16. Identify the sentence that has Present Indefinite.	<input type="radio"/> Everybody enjoys cricket matches.	<input type="radio"/> I saw a really good movie at the cinema last night.	<input type="radio"/> I came here after you had left	<input type="radio"/> I will write articles on different topics.
17. He got up late but reached his office on time. It is an example of:	<input type="radio"/> Simple	<input type="radio"/> Compound	<input type="radio"/> Complex	<input type="radio"/> Compound complex
18. He answered me <u>correctly</u> . The underlined word is a/an:	<input type="radio"/> Adverb of Time	<input type="radio"/> Adverb of Manner	<input type="radio"/> Adverb of Place	<input type="radio"/> Adverb of Degree
19. Julia works at a pet store and owns four cats, a lizard, a dog, and a rabbit. Infer the correct option from the following.	<input type="radio"/> Julia always hurts pets.	<input type="radio"/> Julia hates pets.	<input type="radio"/> Julia is the owner of the pet store.	<input type="radio"/> Julia is a pet lover.
20. Anti-climax is a situation in a play or a story that releases tension after:	<input type="radio"/> Exposition	<input type="radio"/> Climax	<input type="radio"/> Denouement	<input type="radio"/> Conflict



Pakistan International School
Half Yearly Examination 2022
English HSSCI

Time allowed: 2.40 hours

Total Marks: 80

Note: Answer the questions in Sections 'B' and 'C' at the place specified for it therein on the separately provided E-Sheet. No supplementary answer sheet will be provided. Write your answers neatly and legibly.

SECTION – B (Marks-40)

Q2. Read the following passage carefully and answer any six questions including question No.(I) appended to it.

Note: Question No. (I) about summary writing is compulsory carrying 08 marks while the rest of the questions carry 04 marks each. (8+5*4=28)

But when the school bus drops Joel off and he runs up the quarter-mile lane to his farm, slips out of his sneakers, and pulls on boots----then his life is no longer typical of an average teenager. His footgear is the clue. Joel wears boots every day, no matter what the season. That's because he does chores every night after school and for several hours on weekends. The chores are boot work---hard, heavy, and sometimes dirty.

The daily chores that Joel does help run the farm and help support the family. Joel is a teenager, but he does the work of an adult. Unlike most families, where the parents alone make the money, farm families work together. Each child's labour is not only important to the family's well-being, it is essential.

The Hollands operate a self-sufficient farm, typical of many in the Corn Belt. They raise livestock---cattle, and a few sheep. In each herd, they keep some females to replenish the stock. The rest of the animals are sold for slaughter and land on America's tables as beef and lamb. The Hollands grow virtually all the food their animals need---corn, oats, and hay. They sell the surplus, though most of their money comes from selling the animals themselves.

To run a farm like this, farmers have to have many skills. They have to be machine operators, driving immense and powerful vehicles; they have to be mechanics, repairing them; husbandmen, raising livestock; veterinarians, tending them when sick; agriculturists, growing food on a large scale; and business people, managing (like Joel's father) a farm operation worth nearly 1 million dollars. As Joel works on the farm, he is all these workers.

Yet he is a boy still and, like an apprentice, continues to learn new skills. Joel takes his learning seriously because his goal is to become a farmer. He is extremely alert and watchful, like a cat. Even when not actively involved in a chore, Joel can readily answer any question about what is going on. He listens as his dad counsels a seed customer in the kitchen, as his brother Terry consults a vet about recent deaths in his hog hard, as his older brothers discuss soil planning while they mend a fence. Knowledge seems to be constantly seeping, sometimes flowing, into Joel's mind.

Questions:

- I. Write down the summary of the given passage and suggest a suitable title. (7+1=8)**
- II. Why does Joel wear boots every day regardless of the weather?**
- III. Differentiate in the way of working of farm families and the other families?**
- IV. What are the financial benefits of farming for Hollands?**
- V. What skills must a farmer have to have run a farm like Hollands?**
- VI. How can Joel tell what is going on even when he is not actively involved in a chore?**
- VII. Write the underlying message conveyed through the paragraphs.**
- VIII. Deduce the meaning of the underlined words from the context.**

Q3. a. Read the following poetic extract carefully and answer the questions appended to it:
(2+2+2=6)

Good timber does not grow with ease:
The stronger wind, the stronger trees;
The further sky, the greater length;
The more the storm, the more the strength.
By sun and cold, by rain and snow,
In trees and men good timbers grow.

Questions:

- i. What does the poet mean by “good timber”?**
- ii. How does the formula of “stronger winds, stronger trees” apply to human beings?**
- iii. Write down the rhyming scheme of the stanza.**

OR

**Life is real! Life is earnest!
And the grave is not its goal;
Dust thou art, to dust returnest,
Was not spoken of the soul.**

Questions:

- i. What does the poet mean by, "Live in real I Life is earnest!"?**
- ii. What is the poet's observation on 'soul'?**
- iii. What is the dominant theme of the given lines?**

b. Attempt any ONE of the following questions: (6)

- i. What are the main elements of a play? Elaborate any one of them.**

OR

Recall the theme of the play that you have read and explain whether it is of individual or universal significance.

SECTION – C (Marks -40)

Note: Attempt all questions.

Q4. Write your CV for the software engineer job advertised in a newspaper. (8)

Q5.

a. Illustrate correct use of tenses in any six of the following sentences by correctly re-writing them: (6)

- i. His arrogance-----his ruin(brought about/brought in)**
- ii. First she said she was the new head of her , then we discovered she-----the whole tale.
(Made up/ made off)**
- iii. He confessed to the murder and the judge-----him for twenty years.(put away/ put down)**
- iv. How did these things-----.(come about/come up)**
- v. He-----in the middle of his speech. (Broke down/Broke into)**
- vi. The new leader has been able to-----all opposition.(bear down/beer away)**
- vii. The fire-----a dense smoke. (gave in / gave off)**

viii. He-----against such injustice. (cried up /cried out)

b. Use the correct form of verbs given in parentheses. (Any six). (6)

- i. We(go) to see a movie last night.**
- ii. When I reached the station, the train (leave).**
- iii. The plane----- (arrive) at 3:30.**
- iv. I (not see) you since Monday.**
- v. It(rain) since early morning.**
- vi. If he (work) hard, he would have passed the exam.**
- vii. The earth(move) round the sun.**

c. Punctuate the following lines.

(4)

It's a good independent life said Bill you're your own boss I wouldn't know said Joel grinning

Q6. Write a letter to In-charge Police Station(S.H.O) about the law and order situation in your locality.

(8)

Q7. Translate the following passage from English to Urdu.

(8)

Flattery is usually known as a false appreciation. But it presents a weak appreciation of flattery. Because the false appreciation could be judged easily. Therefore, it is not able to get the required consequences while flattery is such praise that is too much artistic and delicate which does not fail to affect upon. So, flattery can be defined as it is an art to appreciate which aims to enhance qualities and to separate evil.

OR

Write a dialogue between two friends about a stressful job(at least 8 sets of conversation other than opening and closing)



Version No.			

ROLL NUMBER							



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Outlines of Home Economics HSSCI
Half Yearly Examination 2022
SECTION – A (Marks 15)
Time allowed: 25 minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Fill the relevant bubble against each question:

ہر سوال کے سامنے دیے گئے درست دائرہ کو پر کریں۔

1. How many effects of fatigue are there?

تھکاؤٹ کے کتنے اثرات ہوتے ہیں؟

2

دو

3

تین

4

چار

5

پانچ

2. Time planning should be:

وقت کی منصوبہ بندی کیسی ہونی چاہیے؟

rigid

غیر لچک دار

flexible

لچک دار

Imbalanced

غیر متوازن

balanced

متوازن

3. How many drops of spirit ammonia should be given to the patient?

سپرٹ امونیا کے کتنے قطرے مریض کو دینے چاہیے؟

10-20

25-30

5-10

30-60

4. Goals are connected with:

مقاصد کا تعلق کس چیز سے ہے؟

energy

توانائی

Direction

سمت

value

اقدار

time

وقت

5. How many types of burns are there?

جلنے کے زخم کی کتنی اقسام ہیں؟

6

۶

5

۵

3

۳

4

۴

6. Which nutrient deficiency causes unconsciousness?

دماغ میں کس جز کی کمی سے بے ہوشی طاری ہو سکتی ہے؟

blood

خون

vitamin A

وٹامن اے

vitamin C

وٹامن سی

vitamin B

وٹامن بی

7. How many types of budgets are there?

میزانیہ کی کتنی اقسام ہیں؟

- 2 3 4 5

8. Time is an important:

وقت ایک اہم کیا ہے؟

- value goal standard resource
قدر مقصد معیار وسیلہ

9. Which of the following is a long-term goal?

مندرجہ ذیل میں سے کونسا طویل معیار مقصد ہے؟

- Marriage Cooking going to college shopping
شادی کھانا پکانا روزانہ کالج جانا خریداری

10. Burnol is used for:

برنال کس لیے استعمال ہوتا ہے؟

- wound fracture burnt skin sprain
زخم فریکچر پر جلد کے جلنے پر موجد پر

11. Light music helps to lessen the effect of:

ہلکی موسیقی کن اثرات کو کم کرتی ہے؟

- noise frustration physical work fatigue
شور مایوسی جسمانی کام تھکاوٹ

12. What reflects your inner thoughts about your life style?

آپ کے خیالات اور کیا آپ کی طرز زندگی کو ظاہر کرتے ہیں؟

- feelings values goals emotions
احساسات اقدار مقاصد جذبات

13. The thing which are used in routine should be kept:

روزمرہ استعمال ہونے والی اشیاء کو کیسے رکھنا بہتر ہے؟

- on lower position at comfortable height at height's position hidden
بہت نیچے مناسب اونچائی بلند اونچائی چھپا کر

14. Budget means balance between income and:

بجٹ آمدنی اور کس کے درمیان توازن قائم کرتا ہے؟

- needs Expenditure resources values
ضروریات اخراجات وسائل اقدار

15. In simple fracture, the bone is broken into how many parts?

سادہ شکستگی میں ہڈی کتنے حصوں میں ٹوٹ جاتی ہے؟

- 2 3 4 6
دو تین چار چھ



Pakistan International School
Half Yearly Examination 2022
OUTLINES OF HOME ECONOMICS HSSC-I

Time allowed: 2:40 hours

Total Marks Section B & C: 60

Section – B (36 marks)

Note: Answer any twelve parts from Section B, and any two questions from Section C on the separately provided answer book. Use supplementary answer sheet i.e. Sheet B if required. Write your answers neatly and legibly.

Q2. Answer any twelve questions. The answer to each part should not exceed 3 to 4 lines. (12x3=36)

1. What is First Aid?
2. Discuss the managerial process in Home Management.
3. List down the components of a healthy personality.
4. List down the reasons for fatigue of a housewife.
5. Define resources.
6. Define family income.
7. Discuss and write the importance of storage in the house.
8. Define characteristics of values.
9. List down the skills you can use to do to a home to increase the income of a family.
10. Why is there a need of the First Aid Kit at home?
11. List the advantages of saving.
12. List down the steps involved in the management process.
13. Discuss how will you take care of a sick person at home.
14. How will you provide first aid to a patient with a sprain?
15. Discuss the treatment for small wounds.
16. List down the importance of time management.
17. Explain briefly Shock.
18. How is artificial respiration given to a patient?

Section - C

(24 marks)

Q3. Attempt any two questions. All questions carry equal marks.

(12x2=24)

19. Define budget. Write down its advantages and types. Plan a budget for an average income family.
20. Discuss the importance of time planning in life. Discuss in detail.
21. Define goals, its types and importance in our life.

(کل نمبر: 36)

حصہ ب

(12x3=36)

سوال نمبر 2: مندرجہ ذیل سوالات میں سے کوئی دس کے جوابات تین سے چار سطروں میں تحریر کریں۔

- ۱۔ ابتدائی طبی امداد سے کیا مراد ہے؟
- ۲۔ انتظام خانہ داری میں انتظام کا عمل بیان کریں۔
- ۳۔ صحت مند شخصیت کے اجزاء تحریر کریں۔
- ۴۔ خاتون خانہ میں تھکن کی کیا وجوہات ہوتی ہیں؟ بیان کریں۔
- ۵۔ خاندان کی آمدنی سے کیا مراد ہے؟
- ۶۔ اسٹوریج کی گھر میں اہمیت بیان کریں۔
- ۷۔ اقدار کی خصوصیات بیان کریں۔
- ۹۔ گھر میں رہتے ہوئے کون سے ہنر استعمال کر کے ہم اپنی آمدنی میں اضافہ کر سکتے ہیں؟
- ۱۰۔ ابتدائی طبی امداد کٹ گھر میں رکھنا کیوں ضروری ہے؟
- ۱۱۔ بچت کے فائدے بیان کریں۔
- ۱۲۔ انصرامی عمل میں کون سے اقدامات ہوتے ہیں، تحریر کریں۔
- ۱۳۔ ہم گھر پر مریض کی دیکھ بھال کس طرح کر سکتے ہیں؟
- ۱۴۔ موچ آنے پر آپ مریض کو کیا ابتدائی طبی امداد دیتے ہیں؟
- ۱۵۔ ہم معمولی زخم کو کس طرح علاج کرتے ہیں؟
- ۱۶۔ وقت کی منصوبہ بندی کی اہمیت تحریر کریں۔
- ۱۷۔ صدمہ سے کیا مراد ہے؟
- ۱۸۔ مریض کو مصنوعی تنفس کس طرح دیا جاتا ہے؟

(کل نمبر: 24)

حصہ ج

(12x2=24)

سوال نمبر 3: مندرجہ ذیل سوالات میں سے کسی دو کا تفصیلی جواب تحریر کریں۔

- ۱۔ بجٹ سے کیا مراد ہے؟ بجٹ کے فوائد اور اقسام تحریر کریں۔ متوسط طبقے کے لیے بجٹ بنائیں۔
- ۲۔ وقت کی اہمیت اور منصوبہ بندی پر جامع نوٹ تحریر کریں۔
- ۳۔ مقاصد سے کیا مراد ہے؟ ان کی اقسام اور زندگی میں اہمیت بیان کریں۔

Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Islamic Education HSSC–I Half Yearly Examination 2022 SECTION – A (Marks 10)

Time allowed: 15 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

<p>1. Al Biyaan is one of the name of the holy Quran what does Al Biyaan means? قرآن کریم کا ایک نام البیان ہے البیان کے کیا معنی ہیں؟</p>	<p><input type="radio"/> Explanatory book. وضاحت والی کتاب</p>	<p><input type="radio"/> Message پیغام</p>	<p><input type="radio"/> Manifest guidance. واضح ہدایت</p>	<p><input type="radio"/> Advice نصیحت</p>
<p>2. Shirk is usually translated as ... شُرک سے کیا مراد ہے.....</p>	<p><input type="radio"/> Polytheism کئی خداؤں کو ماننا</p>	<p><input type="radio"/> Monotheism مثلیت۔</p>	<p><input type="radio"/> Declaration – الہ للہ</p>	<p><input type="radio"/> trinity اعلانیہ</p>
<p>3. The death year of Imam Abdul Rahman Al Nisai is – امام عبد الرحمن النسائی کا سن وفات ہے</p>	<p><input type="radio"/> 303 H -303ھ-</p>	<p><input type="radio"/> 256H ھ256</p>	<p><input type="radio"/> 275H -ھ275</p>	<p><input type="radio"/> 270H ھ270</p>
<p>4. Who compiled Jamia al Tarimzi? جامع ترمذی کے مولف کا نام تحریر کریں۔</p>	<p><input type="radio"/> Imam Abu Isa. امام ابو عیسیٰ</p>	<p><input type="radio"/> A. Imam Abu Abdullah امام ابو عبد اللہ</p>	<p><input type="radio"/> Imam Abu dawood امام ابو داؤد</p>	<p><input type="radio"/> Imam Abdul Rahman امام عبد الرحمن</p>
<p>5. Who ordered the scholars to compile the Hadiths? علماء کو حدیثیں مرتب کرنے کا حکم کس نے دیا؟</p>	<p><input type="radio"/> Hazrat Omer Bin Abdul Aziz حضرت عمر بن عبد العزیز</p>	<p><input type="radio"/> Hazrat Ali (R.A). حضرت علی رضہ</p>	<p><input type="radio"/> Hazrat Usman Ghani (R.A). حضرت عثمان غنی رضہ</p>	<p><input type="radio"/> Hazrat Omer Bin Khatab (R.A) حضرت عمر رضہ</p>

6. Who is the compiler of Kitaab Al Aasaar?

کتاب الآثار کے مصنف کا نام کیا ہے؟

Imam Shafi
امام شافعی

Imam Abu Hanifa
امام ابو حنیفہ

Imam Malik
-امام مالک

Imam Muslim
امام مسلم

7. The existing compilation of the Holy Quran is-----

- قرآن مجید کی موجودہ ترتیب ہے -

Tousefy arrangement
-توصیفی ترتیب

Nazooly arrangement
نزولی ترتیب

Touqeefy arrangement
-توقیفی ترتیب

Toufeeqy arrangement
توفیقی ترتیب

8. In the time which caliph was a battle fought against Muselma bin kazab?

کس خلیفہ راشد کے زمانے میں مسیلمہ بن کذاب کے خلاف جنگ لڑی گئی تھی؟

Hazrat Umar (R.A)
حضرت عمر رض

Hazrat Usman (R.A)
حضرت عثمان غنی رض

Hazrat Ali (R.A)
-حضرت علی رض

Hazrat Abu Bakar (R.A)
حضرت ابو بکر

9. What is the literal meaning of revelation وحی?

وحی کے لغوی معنی کیا ہیں؟

Speaker
بولنے والا

Informar
خبر دینے والا

Good deeds
-نیک عمل

To reveal some words secretly in one's heart
دل میں چپکے سے بات ڈالنا

10. What was reformed first by Prophets?

انبیاء کرام نے سب سے پہلے کیا اصلاح کی؟

Prayers
نماز

Basic Belief
اسلامی عقائد

Human rights
انسانی حقوق

Social obligation
معاشرتی فرائض



Pakistan International School
Half Yearly Examination 2022
Islamic Education HSSCI

Time allowed: 2.15 hours

Total Marks: 40

Note: Answer any Eight parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

حصہ دوم کل نمبر 24

سوال نمبر 2- مندرجہ ذیل قرآنی آیات میں سے کسی ایک کا ترجمہ اور تشریح لکھیں

Q#2 - Translate and explain any One of the following Quranic verses.(1+3=4)

1. إِنَّ الصَّلَاةَ تَنْهَىٰ عَنِ الْفَحْشَاءِ وَالْمُنْكَرِ

2. وَمَا آتَاكُمُ الرَّسُولُ فَخُذُوهُ وَمَا نَهَاكُمْ عَنْهُ فَانْتَهُوا

سوال نمبر 3 مندرجہ ذیل احادیث کا ترجمہ لکھیں

Q#3 Translate the following Ahadith.(2+2=4)

1. مَنْ لَا يَرْحَمِ النَّاسَ لَا يَرْحَمُهُ اللَّهُ

2. الجنة تحت أقدام الأمهات

سوال نمبر 4 مندرجہ ذیل میں سے کوئی سے آٹھ سوالات کے مختصر جوابات لکھیے

i. موطا اور الکافی کے مصنف کون کون سے ہیں؟

ii. نبی اور رسول میں فرق بیان کیجیے۔

iii. صحاح ستہ سے کیا مراد ہے کتابوں کے نام لکھیں۔

iv. ترتیب توقیفی سے کیا مراد ہے

v. عقیدہ ختم نبوت سے کیا مراد ہے آیت قرآنی کی روشنی میں وضاحت کیجئے۔

vi. عقیدہ آخرت کے ہماری زندگی پر کیا اثرات مرتب ہوتے ہیں۔

vii. قرآن مجید کی حفاظت کے بارے میں حضرت عثمان رضی اللہ تعالیٰ عنہ کی کیا خدمات تھیں؟

viii. نبوت محمدی ﷺ کی کوئی سی دو خصوصیات لکھیں۔

ix. مشہور آسمانی فرشتوں کے نام اور ان کے کام تحریر کریں۔

x. قرآن پاک کی کوئی سی دو امتیازی خصوصیت تحریر کریں۔

Q#4 Write short answers to any eight of the following questions. (8x2=16)

- i. Who is the author of Al Mutta and Al Kafi?
- ii. What is the difference between Nabi and Rasul ?
- iii. Define the Saha Sitta and write the names of the books of Hadith.
- iv. What is meant by the Tarteeb-e-Toqify?
- v. What is the Finality of prophet hood, write the detail in the light of Quranic Verse.
- vi. Write the effects of Aqidah Akhirat in our life?
- vii. What were the achievements of Hazrat Usman(R.A) regarding the preservation of the Holy Quran?
- viii. Write two characteristics of Muhammad ﷺ Prophethood.
- ix. Write down the names of famous angels and their duties.
- x. Write any two Distinct characteristics of the Holy Quran

Section C (marks 16)

کوئی سے دو سوال حل کیجئے تمام سوالوں کے نمبر برابر ہیں۔

سوال نمبر 5. انبیاء اکرام کی خصوصیات تحریر کریں۔

سوال نمبر 6. حدیث سے کیا مراد ہے؟ تدوین احادیث کے تینوں ادوار کا تفصیلی ذکر کریں۔

سوال نمبر 7. مندرجہ ذیل پر نوٹ لکھیں۔

i. توحید

ii. مدنی سورتوں کی خصوصیات

Note: Write detailed answers to any two of the following questions all questions carry equal marks.

(2x6=18)

- 5). Describe the characteristics of Prophets.
- 6) What is the meaning of Hadith and write in detail about all of the three periods of the compilation of hadith.
- 7) Write a note on the following
 - a) The concept of Oneness of Allah Almighty
 - b) Characteristics of Makki and Madni Surahs

Version No.			

ROLL NUMBER					



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent.

Deleting/overwriting is not allowed.

Do not use lead pencil.

Mathematics HSSC–I
Half Yearly Examination 2022
SECTION – A (Marks 20)

Time allowed: 25 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے

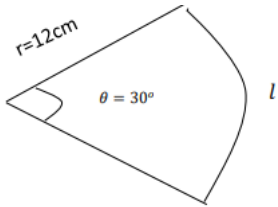
حوالے کریں۔ کٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال

منوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. The number of roots of polynomial $8x^6 - 19x^3 - 27 = 0$	<input type="radio"/> 0	<input type="radio"/> 2	<input type="radio"/> 6	<input type="radio"/> 8
2. Which of the following represents the roots of the equation $x^4 - 1 = 0$	<input type="radio"/> 1, -1, i, -i	<input type="radio"/> 0, 1, w, -w ²	<input type="radio"/> 1, -1, w, -w	<input type="radio"/> 2, -2, 2i, -2i
3. If the roots of quadratic equation in x are $2 \pm \sqrt{3}$ then equation is:	<input type="radio"/> $x^2 - 4x + 1 = 0$	<input type="radio"/> $x^2 - 4x - 1 = 0$	<input type="radio"/> $x^2 + 4x + 1 = 0$	<input type="radio"/> $x^2 + 4x - 1 = 0$
4. For how many values of x the expression $x^2 - x - 2 = (x+1)(x-1)$ holds?	<input type="radio"/> For no value of x	<input type="radio"/> For one value of x	<input type="radio"/> For two values of x	<input type="radio"/> For all values of x
5. The partial fraction of $\frac{x+4}{x^3+8}$ is?	<input type="radio"/> $\frac{A}{x+2} + \frac{Bx+C}{x^2-2x+4}$	<input type="radio"/> $\frac{A}{x+2} + \frac{Bx+C}{x^2+2x+4}$	<input type="radio"/> $\frac{A}{x-2} + \frac{Bx+C}{x^2-2x+4}$	<input type="radio"/> $\frac{A}{x+2} + \frac{Bx+C}{x^2-2x-4}$
6. If $(2x+1) = A(x+1) + B(x+2)$ then A=?	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6
7. An equation in which two algebraic expressions are equal for particular values of the variable is called	<input type="radio"/> Fraction	<input type="radio"/> Identity	<input type="radio"/> Conditional Equation	<input type="radio"/> None of these
8. The identity $\frac{1+\cos x}{\sin x} + \frac{\sin x}{1+\cos x} = ?$	<input type="radio"/> $2\cot x$	<input type="radio"/> $\frac{2}{\sin x}$	<input type="radio"/> $2\tan x$	<input type="radio"/> $\frac{2}{\tan x}$
9. $2\sin 45^\circ + \frac{1}{2}\operatorname{cosec} 45^\circ =$	<input type="radio"/> $\frac{\sqrt{3}}{2}$	<input type="radio"/> $\frac{1}{\sqrt{2}}$	<input type="radio"/> $\frac{3}{\sqrt{2}}$	<input type="radio"/> 1
10. Values of trigonometric function of quadrantal angle 765° are same as:	<input type="radio"/> 30°	<input type="radio"/> 45°	<input type="radio"/> 60°	<input type="radio"/> 90°
11. Which are co terminal angles?	<input type="radio"/> $\frac{\pi}{3}, 4\frac{\pi}{3}$	<input type="radio"/> $\frac{\pi}{3}, 13\frac{\pi}{3}$	<input type="radio"/> $\frac{\pi}{3}, 5\frac{\pi}{3}$	<input type="radio"/> $\frac{\pi}{3}, 17\frac{\pi}{3}$

12. What is the value of l in the figure?



- π
 2π
 3π
 4π

13. $\cos(\theta - 90^\circ) - \cos(\theta + 90^\circ) =$

- $-2\cos\theta$
 $2\cos\theta$
 $-2\sin\theta$
 $2\sin\theta$

14. $\cos 2\theta = ?$

- $\frac{2\tan\theta}{1-\tan^2\theta}$
 $\frac{2\tan\theta}{1+\tan^2\theta}$
 $\frac{1-\tan^2\theta}{1+\tan^2\theta}$
 $2\cos^2\theta + 1$

15. $\tan(3\frac{\pi}{2} - \theta) = ?$

- $\tan\theta$
 $-\cot\theta$
 $\cot\theta$
 $-\tan\theta$

16. $\frac{\sin 2\theta}{1+\cos 2\theta} = ?$

- $\sin\theta$
 $\cot\theta$
 $\tan\theta$
 $\sec\theta$

17. The range of the function $y = \cot x$ is?

- $-1 \leq y \leq 1$
 $y \leq -1$ or $y \geq 1$
 \mathbb{R}
 $\{\mathbb{R}/n\pi; n \in \mathbb{Z}\}$

18. The period of $\sin 2x = ?$

- $\frac{\pi}{3}$
 $\frac{\pi}{2}$
 $2\frac{\pi}{3}$
 π

19. Domain of $\sin x = ?$

- $[-1, 1]$
 $[-\frac{\pi}{2}, \frac{\pi}{2}]$
 \mathbb{R}
 \mathbb{Q}

20. If $\theta = \frac{\pi}{2}$ which one of the following options is true

- $\frac{\cos 2\theta}{\cos^2\theta + \sin^2\theta}$
 $\frac{\sin 2\theta}{2\sin\theta\cos\theta}$
 $\frac{\sin\theta}{-2\sin\frac{\theta}{2}\cos\frac{\theta}{2}}$
 $\frac{\cos\theta}{\cos^2\theta/2 + \sin^2\theta/2}$



Pakistan International School
Half Yearly Examination 2022
Mathematics HSSCI

Time allowed: 2.35 hours

Total Marks: 80

Note: Answer any Twelve parts from Section 'B' and attempt any four questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 48)

Q2. Attempt any Twelve parts from the following. All parts carry equal marks. (12 × 4 = 48)

- (i) Prove that the sum of roots of the quadratic equation is $-b/a$ and the product of the roots are c/a .
- (ii) Prove that identity $\frac{\cos\theta + \cos 3\theta}{2\sin\theta \sin 2\theta} = \cot 2\theta \cot \theta$
- (iii) Prove that $\cos 3\theta = 4\cos^3\theta - 3\cos\theta$
- (iv) $\cos\theta$ is the periodic function prove that the period of $\cos\theta$ is 2π
- (v) Solve for x if $(\cos 60^\circ + x)^2 - \sin^2 60^\circ = 4x \sin 45^\circ \cos 45^\circ + \tan 45^\circ$
- (vi) Define Allied angles. Prove that $\frac{\sin(180^\circ - \theta) \operatorname{cosec}(180^\circ + \theta) \tan(180^\circ - \theta)}{\operatorname{cosec}(360^\circ - \theta) \cos(90^\circ - \theta) \cot(270^\circ + \theta)} = 1$
- (vii) Prove that $\frac{\cos 14^\circ + \sin 14^\circ}{\cos 14^\circ - \sin 14^\circ} = \cot 59^\circ$.
- (viii) In any triangle $\frac{\alpha}{2}, \frac{\beta}{2}$ and $\frac{\gamma}{2}$ be the angles of a triangle.
 prove that $\cot \alpha \cot \beta + \cot \alpha \cot \gamma + \cot \beta \cot \gamma = 1$
- (ix) Solve the equation $\sqrt{13x^2 - 5x - 3} - \sqrt{12x^2 - 5x + 22} = x - 5$
- (x) If α, β are the roots of $5x^2 - 180x + 40 = 0$, find $\alpha^2 - \beta^2$
- (xi) To complete a job A and B take 30 days working together. B alone takes 3 times as long as A alone to finish the same job. How long would each one alone take to do the job?
- (xii) Resolve into partial fraction $\frac{2x^2 - x - 3}{(2x+3)(x^2-1)}$
- (xiii) Show that the area of the sector of circular region of radius 'r' is $\frac{1}{2}r^2\theta$, where θ is the circular measure of central angle of the sector.
- (xiv) For any real number θ ,
 prove the fundamental identity $\operatorname{cosec}^2\theta - 1 = \cot^2\theta$
- (xv) $\sin\theta = -\frac{\sqrt{3}}{2}$ and the terminal angle is not in III quadrant,
 find the value of $\frac{\tan^2\theta + \sec^2\theta}{\operatorname{cosec}^2\theta - \cot^2\theta}$
- (xvi) Solve the system of equations.

$$(x + y)^2 - 3xy = 13 \text{ and } (x + 2)^2 - (x^2 + 3x) + y = 11$$

SECTION – C (Marks 32)

Attempt any four questions given below $8 \times 4 = 32$

Q#3:

Solve graphically $0.5 = \cos 2x \quad x \in [0, 2\pi]$

Q#4:

Show that $\sqrt{3} \sin 20^\circ \sin 40^\circ \sin 80^\circ = \frac{3}{8}$

Q#5:

State and prove fundamental law of trigonometry.

Q#6:

Prove that (i) $\frac{\cot \theta + \operatorname{cosec} \theta - 1}{\cot \theta - \operatorname{cosec} \theta + 1} = \operatorname{cosec} \theta + \cot \theta$

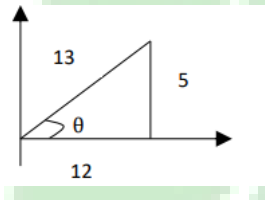
(ii) $\frac{1}{\operatorname{cosec}^6 \theta} + \frac{1}{\sec^6 \theta} = 1 - 3 \sin^2 \theta \cdot \cos^2 \theta$

Q#7:

Resolve into Partial fraction $\frac{x^5+5}{x^4-4}$

Q#8:

Solve the equation $x^2 + 3xy + y^2 = 5$ and $5xy + 2y^2 = 12$



Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent.

Deleting/overwriting is not allowed.

Do not use lead pencil.

PHYSICS HSSC–I

Half Yearly Examination 2022

SECTION – A (Marks 17)

Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پینسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. The expression $\mathbf{A} + (-\mathbf{A})$ of two vectors \mathbf{A} and $(-\mathbf{A}) =$	<input type="radio"/> Unit vector	<input type="radio"/> Null vector	<input type="radio"/> Position vector	<input type="radio"/> 2A
2. Compute the dimensions of power _____ ?	<input type="radio"/> $[MLT^{-1}]$	<input type="radio"/> $[ML^2T^{-3}]$	<input type="radio"/> $[ML^2T^{-1}]$	<input type="radio"/> $[ML^{-1}T^{-2}]$
3. If the direction of applied force is reversed, then _____ ?	<input type="radio"/> Its torque remains unchanged.	<input type="radio"/> The magnitude as well as the direction of torque changes.	<input type="radio"/> The magnitude of torque changes but its direction remains same.	<input type="radio"/> The direction of torque reverses but its magnitude remains same.
4. Which one of the following is not allowed as a standard prefix?	<input type="radio"/> pF	<input type="radio"/> $\mu\mu\text{F}$	<input type="radio"/> μF	<input type="radio"/> nF
5. If a body is moving with constant velocity of 50m/s towards south then its acceleration is _____ ?	<input type="radio"/> 5m/s^2	<input type="radio"/> 25m/s^2	<input type="radio"/> zero	<input type="radio"/> None of these
6. The angle of projection of a projectile is 30° , determine the ratio R/H _____ ?	<input type="radio"/> $4\sqrt{3}$	<input type="radio"/> $2\sqrt{3}$	<input type="radio"/> $3\sqrt{4}$	<input type="radio"/> 4
7. The F_x component of a force vector \mathbf{F} of magnitude 30N makes an angle of 60° with x-axis _____ ?	<input type="radio"/> 7N	<input type="radio"/> 15N	<input type="radio"/> 5N	<input type="radio"/> 10N
8. A ball is dropped from a height of 4.2m. To what height will it rise if there is	<input type="radio"/> 4.2m	<input type="radio"/> 8.4m	<input type="radio"/> 2.1m	<input type="radio"/> None of these

no loss after rebounding?

9. The percentage error in the measurement of voltage and current are 2% and 6% respectively. How much will be uncertainty in the value of resistance?
10. A body is moving with a velocity of 5m/s, possesses a K.E of 625J while in motion. Its mass will be _____?
11. For two vectors **A** and **B** if $\mathbf{A} \cdot \mathbf{B} = \mathbf{A} \times \mathbf{B}$ then the angle between vector **A** and **B** is _____.
12. The escape velocity of a body depends upon _____?
13. In a simple pendulum experiment, percentage errors in L and T are 0.1% and 2%. Calculate the maximum percentage error in LT^2 .
14. The absolute P.E of a body at Earth's surface is _____?
15. The number 0.000056 in scientific notation can be expressed as _____?
16. When a meteorite enters into Earth's atmosphere, its energy converts into _____?
17. The self cross product of a vector **A** is _____?

11%

0.33%

8%

3%

50Kg

10Kg

20Kg

40Kg

 0° 45° 90° 180°

The mass of the body.

The mass of the planet.

The density of the planet.

The diameter of the planet.

4.1%

2%

2.1%

0

 $-Gm/R$ $-GMm/R$ $-Gm/r$ $-GMm/R^2$ 5.6×10^{-5} 5.6×10^{-6} 5.7×10^{-5} 5.6×10^{-4}

Heat energy

Kinetic energy

Nuclear energy

Sound energy

 \sqrt{A} $1/A$ A^2

0



Pakistan International School
Half Yearly Examination 2022
PHYSICS HSSCI

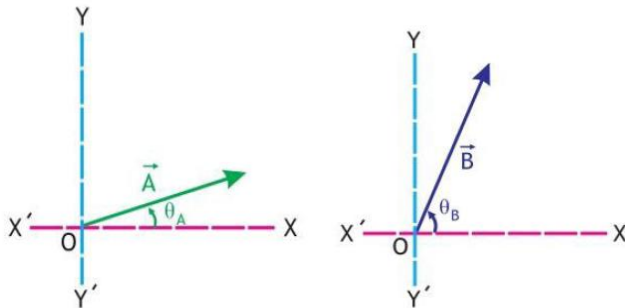
Time allowed: 2.40 hours

Total Marks: 68

Note: Answer any FOURTEEN parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 14x3=42)

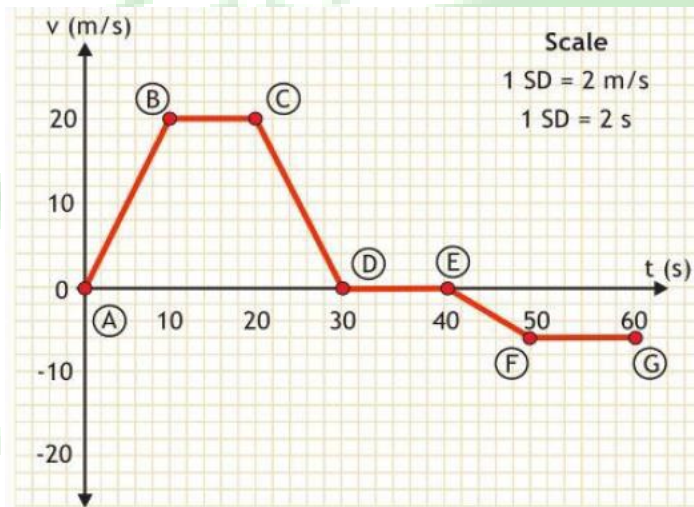
- i. Is K.E a vector quantity? Give reasons with appropriate proof.
- ii. The length and width of a rectangular box are measured to be $L = (1 \pm \Delta L) = (1.6 \pm 0.005) \text{m}$ and $W = (2.0 \pm \Delta W) = (2.0 \pm 0.005) \text{m}$. Calculate the area $A = (A \pm \Delta A)$ of the box and its uncertainty. (Area = Length x width)
- iii. A man standing on the top of a tower throws a ball vertically up with certain velocity. He also throws another ball vertically down with the same speed. Neglecting air resistance, which ball will hit the ground with higher speed?
- iv. How much will be the work required to lift a mass of 6kg tones to a height of 25m. If this is done in 2min determine the power being used. ($P = mgh/t$)
- v. Two vectors are given as:



Draw a vector diagram for $\mathbf{R} = \mathbf{A} + \mathbf{B}$.

- vi. Explain the warning "Never use a large wrench to tighten a small bolt"?
- vii. The engine of a JF-Thunder fighter develops a thrust of 4000N. Calculate its horsepower at a velocity of 700m/s? ($P=F.v$)
- viii. A pulley of radius 0.8m is used to lift a bucket from the well. If it took 2.6 rotations for the pulley to take water out of the well how deep is the water in the well? ($S=r\theta$)
- ix. Discuss solar energy and the process how sunlight is converted into electrical energy?
- x. The human pulse and the swing of the pendulum are possible time units. Why are they not often used?

- xi. If two quantities have different dimensions, is it possible to multiply and/or divide. Can we add and/or subtract them?
- xii. Show that 2π radians = 360° .
- xiii. Calculate the answers upto approximate number of significant figures.
 - a) $23.02+2.2-16.035/17.8$
 - b) $3400 \times 5.45 \times 16.21$
 - c) $0.39-0.2$
- xiv. The velocity-time graph is given as follows:



Calculate the values of accelerations at points **B,D** and **F**? $a=(v_f - v_i)/(t_f - t_i)$

- xv. Can the magnitude of a vector have a negative value? Give proper reasonings.
- xvi. Determine the dimensions of the drag force $F_D = 6\pi\eta r v$ of the solid sphere when it moves through a liquid, where η = viscosity, r is the radius and v is the velocity . (Dimensions of η = $[M^1 L^{-1} T^{-1}]$, r = $[L]$, v = $[LT^{-1}]$).
- xvii. Express the work done in kilo joules in lifting a mass of 20kg through a vertical height of 10m. ($W=F.d$)
- xviii. Derive the relation for the resultant vector $A = \sqrt{Ax^2 + Ay^2}$, when its rectangular components are given.
- xix. For which angle the maximum height reached by a projectile is equal to its range?($H=v_0^2 \sin^2 \theta/2g$, $R= v_0^2 \sin 2 \theta/g$)
- xx. Suppose that the mass of the spacecraft m_s is 1100kg and the mass of the astronaut m_A is 92kg. In addition, assume that the astronaut pushes with a force of $F=+36N$ (along x-axis)on the spacecraft. Find the acceleration of the spacecraft and the astronaut?

$$a = F/(m_s + m_a)$$

SECTION – C (Marks 13x2=26)

Q3.a. Calculate absolute potential energy in bringing a body from Earth's surface to a very far place where force of gravity reduces. **(6)**

b. A man whose mass is 80kg walks up to the third floor of a building which is 15m above the ground in 25s. Calculate its power in watts and hp? $P = mgh/t$

(4)c. Discuss the work-energy theorem in a resistive medium. **(3)**

Q4.a Define projectile motion? Give examples. And find out the expression of instantaneous velocity for the projectile. **(6)**

b. In a welding a bullet is fired in air at a speed of 400m/s making an angle of 60° with horizontal from an AK 47 rifle. (a). How high will the bullet rise? (b). How much time would it take to reach the ground? ($H = v_0^2 \sin^2 \theta / 2g$, $t = 2v_0 \sin \theta / g$)

(2+2)
c. Explain how cranes are able to lift very heavy load without toppling? **(3)**

Q5.a. Explain the products of vectors in detail. **(3+3)**

b. A circular pizza is divided into 3 equal parts. One piece of pizza is taken out. Estimate the degree measure of the single piece of pizza and convert the measure into radians. Estimate the radian measure of the angle of the remaining part of pizza? (Degree measure = $180/\pi$, Radian measure = $\pi/180$) **(4)**

c. Differentiate between distance and displacement. **(3)**



Version No.			

ROLL NUMBER						



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and Handed over to the Centre Superintendent.

Deleting/overwriting is not allowed.

Do not use lead pencil.

Principle of Commerce HSSC–I Half Yearly Examination 2022

SECTION – A (Marks 15)

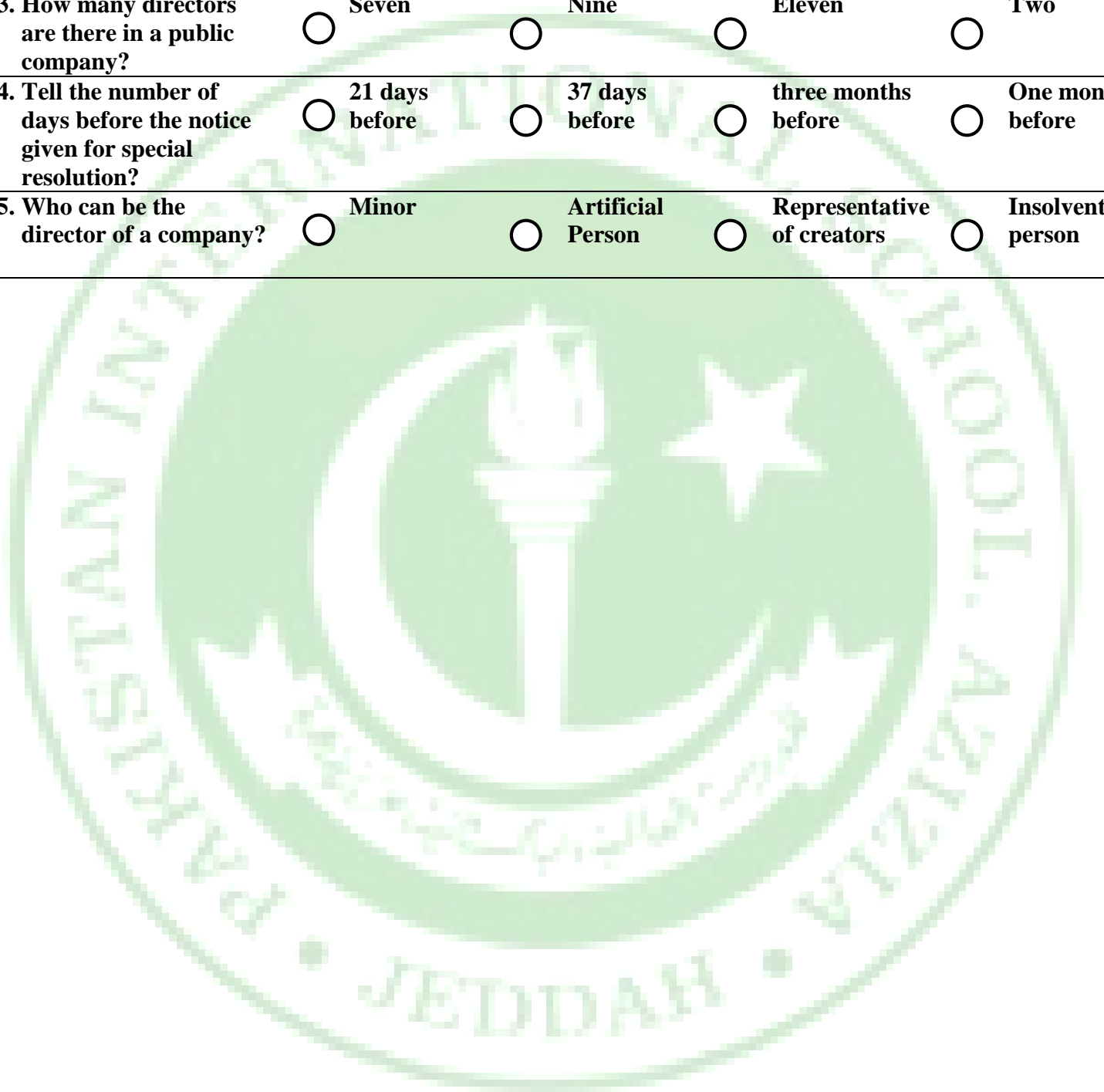
Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q1. Fill the relevant bubble for each part. Each part carries one mark.

1. What is the meaning of Economic activities?	<input type="radio"/> Business	<input type="radio"/> Business & Profession	<input type="radio"/> Business & Profession & Employment	<input type="radio"/> None of the above
2. Business organization mean.....	<input type="radio"/> Sole Trader ship	<input type="radio"/> Partnership	<input type="radio"/> Joint Stock Company	<input type="radio"/> All the above
3. Literal meaning of trade signifies which type?	<input type="radio"/> Exchange	<input type="radio"/> Buying & selling	<input type="radio"/> Business	<input type="radio"/> None of these
4. Trade is component of which sector?	<input type="radio"/> Commerce	<input type="radio"/> Industry	<input type="radio"/> Agriculture	<input type="radio"/> Industry
5. Who help or facilitate trade?	<input type="radio"/> Business Organization	<input type="radio"/> Retailors	<input type="radio"/> Trade auxiliaries	<input type="radio"/> Organization
6. Minimum numbers of partners in partnership is...	<input type="radio"/> Two	<input type="radio"/> Four	<input type="radio"/> Six	<input type="radio"/> Ten
7. partnership deed rules can be.....	<input type="radio"/> Written	<input type="radio"/> Oral	<input type="radio"/> Written & Registered	<input type="radio"/> All are correct
8. To whom first payment after dissolution is made?	<input type="radio"/> Partners	<input type="radio"/> Partners debts	<input type="radio"/> External creditors	<input type="radio"/> Payments
9. JSC is formed under which Act?	<input type="radio"/> 1978	<input type="radio"/> 1982	<input type="radio"/> 1984	<input type="radio"/> 1990
10. How many maximum numbers of members in public company?	<input type="radio"/> Thirty-five	<input type="radio"/> Fifty	<input type="radio"/> Unlimited	<input type="radio"/> Twenty

- | | | | | |
|---|---------------------------------------|---|--|--|
| 11. Which thing has to be bought in order to become shareholder of company? | <input type="radio"/> Share | <input type="radio"/> Debentures | <input type="radio"/> Dividend | <input type="radio"/> None of these |
| 12. Share issued to promoters are called? | <input type="radio"/> Ordinary shares | <input type="radio"/> Preference shares | <input type="radio"/> deferred Shares | <input type="radio"/> Debentures |
| 13. How many directors are there in a public company? | <input type="radio"/> Seven | <input type="radio"/> Nine | <input type="radio"/> Eleven | <input type="radio"/> Two |
| 14. Tell the number of days before the notice given for special resolution? | <input type="radio"/> 21 days before | <input type="radio"/> 37 days before | <input type="radio"/> three months before | <input type="radio"/> One month before |
| 15. Who can be the director of a company? | <input type="radio"/> Minor | <input type="radio"/> Artificial Person | <input type="radio"/> Representative of creators | <input type="radio"/> Insolvent person |





Pakistan International School
Half Yearly Examination 2022
Principle Of Commerce: XI

Time allowed: 2.40 hours

Total Marks: 50

Note: Answer any NINE parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks36) 9x4=36

Q 2. Answer nine parts. The answer to each part should not exceed to 2 to 4 lines.

- i) Explain the types of Primary Industries.
- ii) Define different types of trade.
- iii) How does commerce make the available resources useful?
- iv) Give some examples of Sole trader ship.
- v) Define partnership and state its four advantages.
- vi) List down the types of partnership.
- vii) Define JSC and mention few disadvantages.
- viii) What is meant by common seal of JSC?
- ix) Explain the preference shares in JSC.
- x) Defernite between share holder and debenture holder.
- xi) What are the contents of statuary meeting of the company?
- xii) What is meant by Extra ordinary meeting and its objectives?

SECTION – C (Marks24)

12x2=24

Note: Attempt any TWO questions and explain its objectives.

- Q.3 Explain in detail Auxiliaries of Trade.
- Q.4 Mention different important document required for Joint Stock companies.
- Q.5 Discuss the various Methods of Dissolution of Partnership Firm.
-

Version No.			

ROLL NUMBER							

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

پرچہ اردو برائے جماعت گیارہویں

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

ششماہی امتحان 2022-23

حصہ اول کل نمبر 20

وقت: 25 منٹ

سوال نمبر 1: ہر جز کے سامنے دیے گئے درست دائرہ کو پر کریں۔

1- کس صنف سخن کا ہر شعر الگ موضوع کا حامل ہوتا ہے؟	<input type="radio"/>	پابند نظم	<input type="radio"/>	آزاد نظم	<input type="radio"/>	غزل	<input type="radio"/>	رباعی	<input type="radio"/>
2- "آیا ہے تو جہاں میں مثال شرار دیکھ۔" اس جملے میں مشبہ بہ کیا ہے؟	<input type="radio"/>	انسان	<input type="radio"/>	مثال	<input type="radio"/>	دیکھ	<input type="radio"/>	شرار	<input type="radio"/>
3- مقطع کی نشاندہی کریں۔	<input type="radio"/>	کیوں ہے غرض مضطرب مومن	<input type="radio"/>	تیرے عشق کی انتہا چاہتا ہوں	<input type="radio"/>	ابن مریم ہوا کرے کوئی	<input type="radio"/>	دل نادان تجھ ہوا کیا ہے	<input type="radio"/>
4- روزمرہ کس کی بول چال کا نام ہے؟	<input type="radio"/>	اہل کتاب کی	<input type="radio"/>	اہل عشق کی	<input type="radio"/>	اہل زبان کی	<input type="radio"/>	اہل دل کی	<input type="radio"/>
5- مقطع میں شاعر استعمال کرتا ہے؟	<input type="radio"/>	اپنا خطاب	<input type="radio"/>	اپنی کنیت	<input type="radio"/>	اپنا تخلص	<input type="radio"/>	اصل نام	<input type="radio"/>
6- کس صنف میں قرآنی آیت، حدیث یا تاریخی و مذہبی واقعے کی طرف اشارہ کیا جاتا ہے؟	<input type="radio"/>	صنف لف و نشر	<input type="radio"/>	صنف تلمیح	<input type="radio"/>	صنف تضاد	<input type="radio"/>	صنف تضمین	<input type="radio"/>
7- کرداروں کی حرکات و سکنات اور مکالموں کے ذریعے پیش کی جانے والی کہانی کو کیا کہتے ہیں؟	<input type="radio"/>	ڈرامہ	<input type="radio"/>	ناول	<input type="radio"/>	افسانہ	<input type="radio"/>	سفر نامہ	<input type="radio"/>
8- وہ تمام الفاظ جو فعل کے معنی کی وضاحت کریں کیا کہلاتے ہیں؟	<input type="radio"/>	فعل ناقص	<input type="radio"/>	معاون فعل	<input type="radio"/>	فعل تام	<input type="radio"/>	متعلق فعل	<input type="radio"/>

پانچ	<input type="radio"/>	تین	<input type="radio"/>	چار	<input type="radio"/>	دو	<input type="radio"/>	9- ارکان استعارہ کتنے ہیں؟
سفر نامہ	<input type="radio"/>	افسانہ	<input type="radio"/>	ناول	<input type="radio"/>	مضمون	<input type="radio"/>	10- سرسید احمد خان نے مسلمانوں کی اصلاح کے لئے مقصدیت سے بھرپور لکھے۔
چھ	<input type="radio"/>	پانچ	<input type="radio"/>	چار	<input type="radio"/>	تین	<input type="radio"/>	11- محسن کے ہر بند کے مصرعوں کی تعداد ہوتی ہے:
صنعت تضمین	<input type="radio"/>	صنعت تضاد	<input type="radio"/>	صنعت تکرار	<input type="radio"/>	صنعت لف و نشر	<input type="radio"/>	12- سمجھ مجھ کو رائیگاں نہ سمجھ نہ سہی تیرے کام کا نہیں نہ سہی "اس شعر میں کون سی صنعت استعمال ہوئی ہے؟
صنعت ایہام	<input type="radio"/>	صنعت تضاد	<input type="radio"/>	صنعت تکرار	<input type="radio"/>	صنعت تلمیح	<input type="radio"/>	13- "باوجود یہ کہ پروبال نہ تھے آدم کے "اس مصرع میں کون سی صنعت استعمال ہوئی ہے؟
صنعت تلمیح	<input type="radio"/>	صنعت تضاد	<input type="radio"/>	صنعت صن تعلیل	<input type="radio"/>	صنعت مرآة النظیر	<input type="radio"/>	14- صر آغاز کو کون پوچھتا ہے انجام اچھا ہو آدمی کا " اس شعر میں استعمال ہونے والی صنعت ہے۔
قطعہ	<input type="radio"/>	مرثیہ	<input type="radio"/>	مدرس	<input type="radio"/>	مثنوی	<input type="radio"/>	15- جس نظم میں واقعہ کرلا سے متعلق حالات اور واقعات قلم بند کیے جائیں وہ کہلاتی ہے؟
قطعہ	<input type="radio"/>	مرثیہ	<input type="radio"/>	شہر آشوب	<input type="radio"/>	مثنوی	<input type="radio"/>	16- ایسی نظم کو کیا کہتے ہیں جس میں فتنہ و فساد، کسی شہر کی یا ملکی سیاسی و اقتصادی تباہی کا ذکر ہو؟
چلا تے ہیں	<input type="radio"/>	گاڑی	<input type="radio"/>	احتیاط سے	<input type="radio"/>	بعض ڈرائیور	<input type="radio"/>	17- "بعض ڈرائیور احتیاط سے گاڑی چلا تے ہیں۔" اس میں متعلق فعل کیا ہے؟
فعل جاری	<input type="radio"/>	معاون فعل	<input type="radio"/>	فعل مستقبل	<input type="radio"/>	فعل ناقص	<input type="radio"/>	18- علی نے سیب کھا لیا۔ "اس جملے میں لفظ "لیا" کو قواعد کی رو سے کیا کہیں گے؟
منظر کشی کرنا	<input type="radio"/>	کچھ کر کے دکھانا	<input type="radio"/>	کسی کو ڈرانا	<input type="radio"/>	کچھ نیا دکھانا	<input type="radio"/>	19- ڈرامہ لفظ "ڈراما" سے نکلا ہے۔ اس لفظ کے لغوی معنی کیا ہے؟
ملاقات	<input type="radio"/>	گفتگو	<input type="radio"/>	بات چیت	<input type="radio"/>	مکالمہ	<input type="radio"/>	20- کرداروں کی آپس میں بول چال قواعد کی رو سے کہلاتی ہے؟



پاکستان انٹرنیشنل اسکول جدہ، ششماہی امتحان 2022-23

پرچہ اردو (لازمی) برائے جماعت گیارہویں

وقت: 2:35 گھنٹے

کل نمبر حصہ دوم اور سوم = 80

حصہ دوم کل نمبر 48

(6×4=24)

سوال نمبر 2: (الف) حصہ نثر

1 عبارت پڑھ کر آخر میں دیے گئے سوالات میں سے چھ کے مختصر جوابات لکھیں۔

پاکستان میں بہت سی نسلیں آباد ہیں اور بہت سی زبانیں بولی جاتی ہیں۔ ان نسلی گروہوں میں بہت سی خوبیاں ہیں اور ان زبانوں کے ادب میں ہمارے لیے بہت سا قابل قدر سرمایہ فکر و تہذیب موجود ہے، مگر ملکی قومیت ہر خطے کے لوگوں سے یہ قربانی مانگتی ہے کہ وہ اپنی صلاحیتوں اور قابلیتوں کو خطے کی خدمت کرتے وقت بھی وسیع تر قومی نقطہ نظر کے تابع رکھیں ورنہ ڈر ہے کہ کسی کمزوری کے وقت یا کسی غیر ملکی سازش یا عقیدے سے متاثر ہو کر کر یہ خطہ پرستی پاکستان کے تیرازے کو منتشر کر کے اس کی وحدت کو بالکل مٹا ہی نہ دے۔ یہاں بہت سے لوگ مقامی زبانوں کی محبت کا واسطہ دے کر خطے کا تاثر ابھار رہے ہیں۔ مگر ہر ذی فہم آدمی کو معلوم ہے کہ پاکستان کے بعض خطوں کی لسانی تحریک دراصل نسلی تحریک ہے اور اس کے پیچھے زبان کی ترقی کا جذبہ اتنا نہیں جتنا علاقائی ریاستوں کا وہ خواب ہے جو ہمارے ملک کے بعض کم فہم بھائیوں کے دل و دماغ میں ان کی بد نیتی کے زیر اثر سمایا ہوا ہے۔ لہذا حکومت ملک کی وحدت قومیت کی خاطر اس لسانی تعصب کو پھیلنے سے روکے اور مقامی زبانوں کی ترقی کے ہر منصوبے کے پس پردہ محرکات کا بھی جائزہ لیں۔

سوالات:

i- پاکستان میں مختلف زبانوں کا ادب ہمارے لئے کس طرح فائدہ مند ہے؟

ii- ملک کی قومیت ہر خطے سے کس قسم کی قربانی مانگتی ہے؟

iii- دیے گئے متن کا مرکزی خیال تحریر کریں۔

iv- علاقہ پرستی اور وطنیت میں کیا فرق ہے؟

v- لسانی تحریکوں کا خطرناک پہلو کیا ہے؟

vi- ملک میں موجود لسانی تعصب کو کیسے روکا جاسکتا ہے؟

vii- آپ کے خیال میں کیا واقعی ہی علاقائی لسانی تعصب ملکی قومیت کے لیے خطرہ بن سکتا ہے، کس طرح وضاحت کریں؟

(ب) حصہ نظم:

مندرجہ ذیل نظمیں اشعار کو پڑھ کر آخر میں دیے گئے سوالات میں سے تین کے جوابات لکھیں: (3×4=12)

1- اسی خالق، اسی مالک کی ہے سب حمد و ثنا آبخاروں کا ترنم ہو، کہ گلبنگ ہزار

یہ سب آیت الہی ہیں، ذرا غور سے دیکھ اس کی پھر حمد بیان کر اسی خالق کو پیکار

اس کی صنعت کے نمونے ہیں وہ نکمت ہو کہ رنگ اس کی قدرت کے کرشمے ہیں، خزاں ہو کہ بہار

i- "یہ سب آیات الہی ہیں، ذرا غور سے دیکھ" حمد کے پس منظر میں اس شعر کی وضاحت کریں۔

ii- پہلے شعر کا مرکزی خیال لکھیں۔

iii- آخری شعر میں کونسی صنعت استعمال ہوئی ہے؟

iv- آخری شعر کا مفہوم لکھیں۔

یا

ب- اب جینے کو تم رخصت دو اور مرنے کو مہمان کرو
 خیرات کرو، احسان کرو، یا پُئن کرو یا دان کرو
 یا پوری لڑو ہواؤ یا خاصہ حلوہ دان کرو
 کچھ لطف نہیں اس جینے کا اب مرنے کا سامان کرو
 تن سوکھا کبڑی بیٹھ ہوئی گھوڑے پر زین دھرو بابا
 اب موت نقارہ باج چکا، چلنے کی فکر کرو بابا

سوالات:

i- آخری عمر میں انسان کو کس قسم کے کام کرنے چاہیے؟

ii- بڑھاپے میں پہنچ کر کس چیز کا لطف نہیں رہتا؟

iii- دوسرے شعر کا مفہوم بیان کریں۔

iv- گھوڑے پر زین دھرنے سے شاعر کی کیا مراد ہے؟

(ج) حصہ غزل:

مندرجہ ذیل غزل یا شعر کو پڑھ کر آخر میں دیے گئے سوالات میں سے کسی ایک کا جواب لکھیں: (1×4=8)

i- ذکر میرا ہی وہ کرتا تھا صریحاً، لیکن میں جو پہنچا تو کہا، خیر یہ مذکور نہ تھا

ii- جس سر کو آج غرور ہے یاں تاج دری کا کل اس پہ یہیں شور ہے پھر نوحہ گری کا

سوالات:

1- پہلے شعر کا مرکزی خیال تحریر کریں۔

2- دوسرے شعر میں شاعر نے انسان کے بارے میں کیا کہا ہے؟

(د) حصہ قواعد:

مندرجہ ذیل سوالات میں سے کسی دو سوالوں کے جوابات تحریر کریں۔ (2×4=8)

i- میرا ان نیم باز آنکھوں میں ساری مستی شراب کی سی ہے

اس شعر میں موجود ارکان تشبیہ کی نشاندہی اور وضاحت کیجئے۔

ii- صنعت تلمیح کی تعریف لکھیں اور دو مثالیں دے کر وضاحت کریں۔

iii- نظم اور غزل میں کیا فرق ہے وضاحت کریں۔

حصہ سوم کل نمبر 32

(6)

سوال نمبر 3: مندرجہ ذیل میں سے کسی ایک متن کی تشریح کریں:

الف :- انسان کے اندر حسن کا احساس سب سے زیادہ قوی ہے۔ اور وہ ہر لمحہ اور ہر گھڑی اس حسن کی تلاش میں رہتا ہے اور ادب چونکہ فنکاری کے ساتھ ساتھ چند خاص خیالات اور چند خاص جذبات و احساسات کو پیش کرنے کا نام ہے، اس لیے اس میں حسن کا پیدا ہونا لازمی ہے۔ اور جب کسی چیز میں حسن پیدا ہو جاتا ہے تو انسان اس میں دلچسپی لیے بغیر نہیں رہ سکتا، کیونکہ وہ فطرتاً حسن کا شیدائی ہے۔ چنانچہ ادب سے انسان کی دلچسپی کی ایک بہت بڑی وجہ یہ بھی ہے کہ اس میں فنکارانہ اور صناعتانہ حسن کی دنیا میں سموتی ہوئی ہوتی ہیں۔ وہ اس سے دلچسپی لیتا ہے، کیونکہ اس کے وجود سے اس کے احساس جمال کو تسکین ہوتی ہے۔ یہ احساس جمال کوئی اٹل چیز نہیں، یہ بھی وقت، ماحول، حالات و واقعات، افتاد طبع اور ذہنی رجحانات کے اختلافات کے باعث ایک دوسرے سے مختلف ہو سکتا ہے، اور ہوتا ہے۔ لیکن احساس جمال کا ہونا ہر انسان کے اندر لازمی ہے۔ خواہ وہ کم ہو یا زیادہ اچھا ہو یا برا۔

ب - پھر وہ اپنی جوانی کا زمانہ یاد کرتا تھا۔ اپنا سرخ سفید چہرہ، سڈول ڈیل، بھرا بھرا بدن، رسیلی آنکھیں، موتی کی لڑی سے دانت، امنگ میں بھرا ہوا دل، جذبات انسانی کے جوشوں کی خوشی اسے یاد آتی تھی۔ اس آنکھوں میں اندھیرا چھائے ہوئے زمانے میں ماں باپ جو نصیحت کرتے تھے اور نیکی کی بات بتاتے تھے اور یہ کتنا تھا کہ "آہ ابھی بہت وقت ہے" اور بڑھاپے کے آنے کا کبھی خیال بھی نہ کرتا تھا۔ اس کو یاد آتا تھا اور افسوس کرتا تھا کہ کیا اچھا ہونا اگر جب ہی میں اس وقت خیال کرتا ہوں اپنے دل کو سنوارتا اور موت کے لیے تیار رہتا۔ آہ وقت گزر گیا! آہ وقت گزر گیا! اب پچھتائے کیا ہوتا ہے۔ افسوس میں نے آپ اپنے تئیں ہمیشہ یہ کہہ کر برباد کیا کہ "ابھی وقت بہت ہے"۔

سوال نمبر 4: مندرجہ ذیل میں سے کسی ایک نظم پر جو کی آسان لفظوں میں تشریح کریں۔ (7)

الف :- اترو مسافر! کے سفر ہو چکا تمام کوچ اب نہ ہوگا حشر تلک، ہے یہی مقام
مقتل یہی زمیں ہے، یہی مشہد امام اونٹوں سے بار اتار کے برپا کرو خیام
بستر لگاؤ شوق سے، اس ارض پاک پر چھڑکا ہوا ہے آب بقا یاں کی خاک پر

یا

خالق بھی، کارساز بھی، پروردگار بھی وہ جس کی ذات پر وہ کشا، پر وہ دار بھی

ذکرِ خدائے پاک جو ہے جل شانہ تسکین روح بھی ہے، دلوں کا قرار بھی

سب ہیں اسی کے حکم سے دن ہو کہ رات ہو شام خزاں اسی کی ہے، صبح بہار بھی

سوال نمبر 5: مندرجہ ذیل میں سے کسی ایک غزلیہ جزو کی تشریح کیجئے۔ (3+3+3=9)

الف :- فقیرانہ آئے صدا کر چلے میاں! خوش رہو ہم دعا کر چلے

وہ کیا چیز ہے آہ! جس کے لیے ہر اک چیز سے دل اٹھا کر چلے

کوئی نا امیدانہ کر کے نگاہ سوتم ہم سے منہ بھی چھپا کر چلے

ب :- دین و دنیا میں تو ہی ظاہر ہے دونوں عالم کا ایک عالم ہے

خیر و شر کو سمجھ کہ ہیں دوزیر سانپ کی زیست ہی تجھے سم ہے

مت عبادت پہ پھولیو زاہد سب طفیل۔ گناہ آدم ہے

سوال نمبر 6: استاد اور شاگرد کے مابین محنت کی عظمت کے عنوان پر مکالمہ تحریر کیجئے۔ (5)

سوال نمبر 7: کسی اخبار کے مدیر کے نام خط لکھیں اور ماحول کی آلودگی اور بڑھتی ہوئی آبادی کے نقصانات سے آگاہ کرتے ہوئے ان کے

سدا ب کی تجاویز دیں۔ (5)

Version No.			

ROLL NUMBER						



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Answer Sheet No. _____

Class/Sec: _____

Sign of Candidate: _____

Sign of Invigilator: _____

Section – A is compulsory. All parts of this Section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Computer Science HSSC–I
Half Yearly Examination 2022
SECTION – A (Marks 15)

Time allowed: 20 Minutes

حصہ اول لازمی ہے۔ اس کے جوابات اس صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Q.1: Fill the relevant bubble for each part. Each part carries one mark.

1. Which one of the following is the most suitable to print result cards of 1500 students on a very cheap cost?	<input type="radio"/> Laser printer	<input type="radio"/> Dot matrix printer	<input type="radio"/> Desk jet printer	<input type="radio"/> Plotter
2. Which device reads the information of owner from Credit Card?	<input type="radio"/> Bar Code Reader	<input type="radio"/> Handheld Scanner	<input type="radio"/> Magnetic Card	<input type="radio"/> Optical Scanner
3. Which memory does not loses its contents when power is off?	<input type="radio"/> Static RAM	<input type="radio"/> Dynamic RAM	<input type="radio"/> RAM	<input type="radio"/> ROM
4. Time taken to retrieve data from memory is called _____.	<input type="radio"/> Data transfer rate	<input type="radio"/> Access time	<input type="radio"/> Cost	<input type="radio"/> Data storage capacity
5. Which bus transfers instructions from main memory to instruction register?	<input type="radio"/> Data bus	<input type="radio"/> Control bus	<input type="radio"/> Address bus	<input type="radio"/> Instruction bus
6. Which of the following language translator translate the whole program into machine language?	<input type="radio"/> Compiler	<input type="radio"/> Interpreter	<input type="radio"/> Debugger	<input type="radio"/> Assembler
7. Which type of software disk defragmenter and disk cleaner is?	<input type="radio"/> Utility Software	<input type="radio"/> Language translator	<input type="radio"/> Device drivers	<input type="radio"/> Application Software
8. 1 Terabyte (TB) = _____ bytes.	<input type="radio"/> 2^{10} bytes	<input type="radio"/> 2^{20} bytes	<input type="radio"/> 2^{30} bytes	<input type="radio"/> 2^{40} bytes
9. Which of these expansion slots has highest video performance?	<input type="radio"/> PCI	<input type="radio"/> AGP	<input type="radio"/> SATA	<input type="radio"/> PCI Express

10. _____ is a firmware in which system programs are permanently stored by the manufacturer.

BASIC BIOS BIO GRAPHY BIOLOGY

11. The instruction which move data from memory to register, register to memory ,register to register is :

MOV MOVE LD STO

12. Which port is generally used to connect video devices to the computer?

Firewire port USB port PS/2 port Parallel port

13. _____ provides interface to the network.

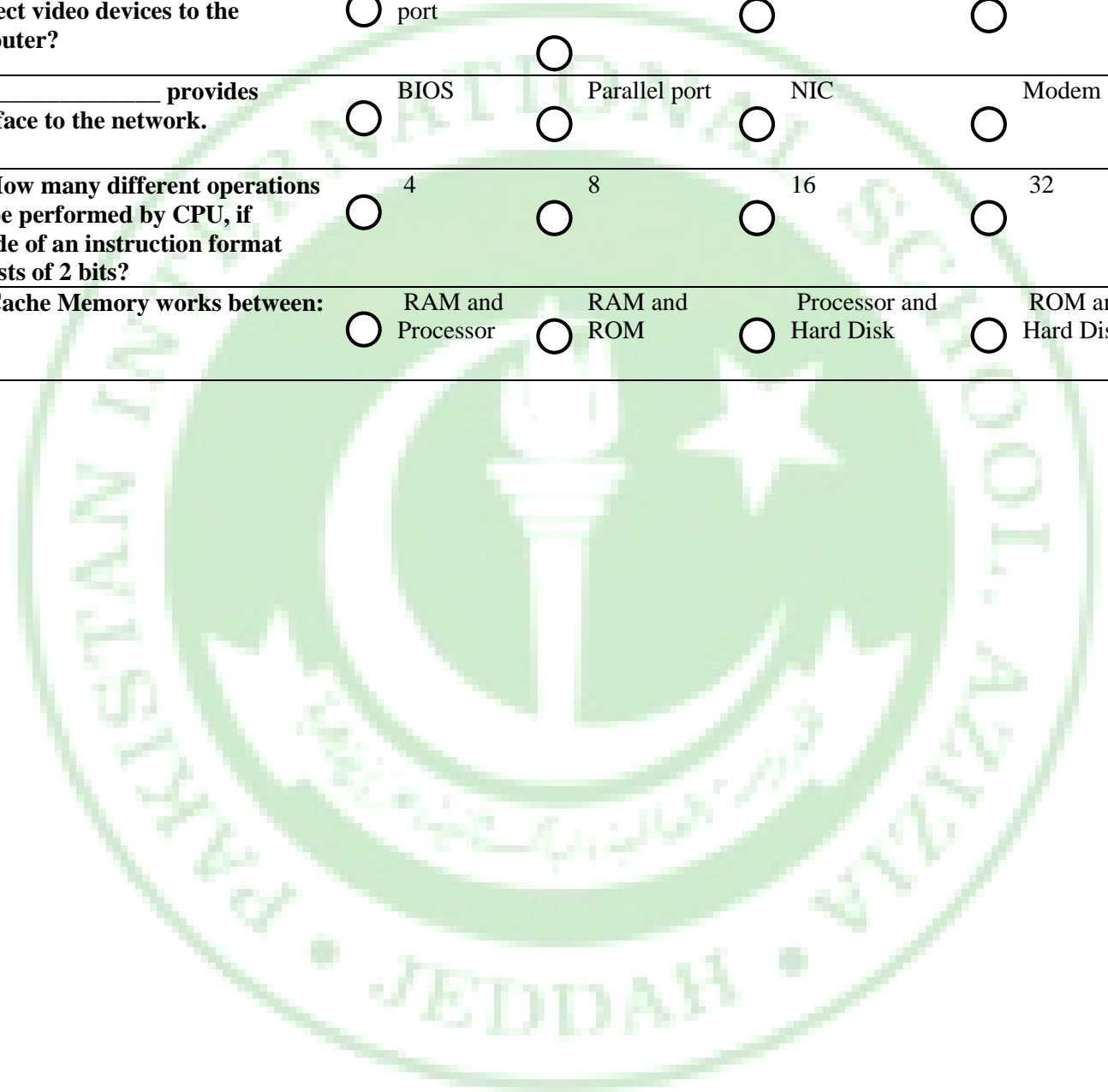
BIOS Parallel port NIC Modem

14. How many different operations can be performed by CPU, if opcode of an instruction format consists of 2 bits?

4 8 16 32

15. Cache Memory works between:

RAM and Processor RAM and ROM Processor and Hard Disk ROM and Hard Disk





Pakistan International School
Half Yearly Examination 2022
COMPUETR SCIENCE HSSC -I

Time allowed: 2.40 hours

Total Marks:60

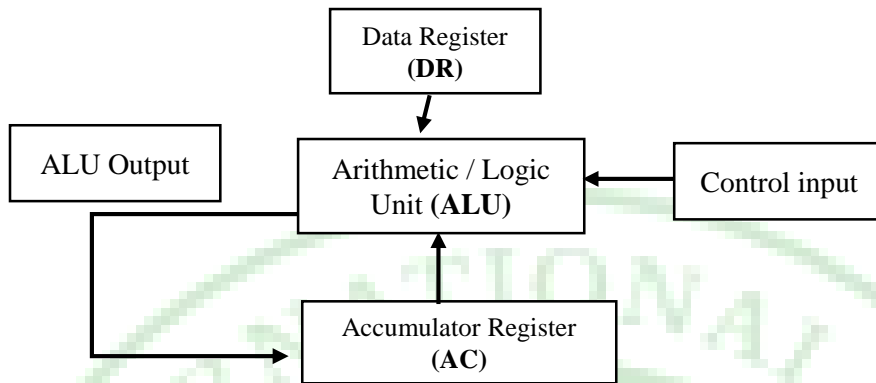
Note: Answer any nine parts from Section ‘B’ and attempt any two questions from Section ‘C’ on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 36)

Q.2: Attempt any **TWELVE** parts from the following. All parts carry equal marks. (12 × 3 = 36)

- i) Why **LCD** is better than monitors? Justify your answer with three reasons. (3)
 - ii) Write down any one application of the following scanner types: (1+1+1)
 - a. Handheld scanner
 - b. Flatbed scanner
 - c. Optical scanner
 - iii) Which pointing device is available in laptop? How it differs from a mouse? Give two reasons. (3)
 - iv) State three differences between **SRAM** and **DRAM**. (3)
 - v) Complete the following table for the given processors with reference to clock speed, cache and architecture. (3)
- | Processor | Clock speed | Cache | Architecture |
|------------|-------------|-------|--------------|
| Intel P4 | | | |
| AMD Athlon | | | |
- vi) Enlist the advantage and disadvantage of cloud computing now a days. (3)
 - vii) What is an Instruction Cycle? Illustrate with diagram. (3)
 - viii) Which port is **plug** and **play**? Why is it called plug and play? Give two reasons. (3)
 - ix) Discuss any three differences between **CISC** and **RISC**. (3)
 - x)What is Memory Word? How size of Memory word affects the speed of computer? (1+2)
 - xi) Write down the functions of Memory Address Register and Program Counter? How are they linked? (3)
 - xii) What is the purpose of secondary memory? (3)
 - xiii) Elaborate the function Of power supply in the computer. (3)
 - xiv) Interpret the function of disk controller in the computer? (3)
 - xv) Give one advantage and two disadvantages of using wireless network card. (3)

xvi) Observe the diagram carefully and describe the working of ALU to add two numbers 10 and 15. (3)



SECTION – C (Marks 24)

Note: Attempt any THREE questions. All questions carry equal marks. (3 × 8 =24)

Q.3 a. Differentiate between Sequential access and Direct access storage. (4)

b. Which one of the following storage media is better and why? Support your answer with three reasons. (1+3)

(i) Magnetic (ii) Optical

Q.4 Describe the following classification of computers with their applications in daily life: (2+2+2+2)

- i. Supercomputer
- ii. Mainframe Computer
- iii. Microcomputer
- iv. Mobile Computing

Q.5) a. What is an Instruction? Briefly explain three types of instructions with example. (4)

b. Read the given description carefully and complete the following grid: (4)

	1	2	3
Description	Name of Storage Device	Category of Storage: Primary/Secondary	
Volatile memory that is used as cache memory and does not need to be recharged.			
Volatile memory that uses laser beam to read/write data and have smaller and very densely packed bumps due to which it has largest storage capacity.			
Non-volatile memory that uses electric current to rewrite data and work like flash memory			
Non-volatile memory in which data is accessed sequentially and mostly used for backing purpose.			

Q#6: Explain different types of instruction formats with examples. (8)