



**ENGLISH
COMPULSORY SSC-I**

SECTION - A (Marks: 15)

Time allowed: 20 Minutes

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.

حصہ اول لازمی ہے۔ اس حصہ کے تمام حصے اس صفحہ پر لکھے جائیں اور اسے سینٹر سپرنٹنڈنٹ کو ہاتھ کر کے پیش کیا جائے گا۔ ڈیلٹنگ/اوور رائٹنگ کی اجازت نہیں ہے۔

9th Class

فیدرل بورڈ

2023

English

Version No.			
1	0	1	1

ROLL NUMBER							

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. _____

Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum:

Candidate Sign. _____

Question	A B C D				A B C D			
1. She is a good speaker. In addition he also writes very well. The underlined part of sentence is a transitional device of:	Emphasis	Sequencing	Exemplification	Addition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2. Re-cognize the Metaphor:	All the trees seem to be dancing.	Some people are brave.	Her tears were flowing down her cheeks.	He is behaving like a child.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Most of the butterflies <u>Perish</u> in the first frost of autumn. The underlined word means:	To remain	To endure	To die	To breathe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
4. Some people are too <u>fat</u> to walk. Negative connotation of underlined word is:	Obese	Strong	Heavy	Plump	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Which one of the following sentences has use of transitive verb:	They are running.	He lives on the left side of the road.	She was going to the bank.	The dog chased the running cat.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. I shall assist you in drawing. I am not a good painter. Choose the correct transitional device from the following:	For example	However	Subsequently	According	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. If you had worked hard, you would have passed. What type of sentence is it?	Zero conditional	Conditional Type-I	Conditional Type-II	Conditional Type-I	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. They bought seashells from seashore. Which poetic device is used in this line?	Metaphor	Simile	Alliteration	Personification	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
9. We ought to help the poor. The modal verb in the sentence shows the function of:	Doubt	Ability	Obligation	Probability	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
10. People usually give _____ the money as zakat in the month of Ramadan. Choose the correct preposition:	Away	In	On	Through	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Identify the indefinite pronoun used in one of the following sentences:	I performed the practical myself.	Poverty is the main hindrance in development	This is the shortest way to school.	Nobody was there to help the injured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
12. The car which has red doors is mine. The underlined part of sentence is:	Noun clause	Principal Clause	Adjective Clause	Adverb Clause	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
13. In which of the following sentences abstract noun is used?	Jack and Jill went up a hill.	Honesty is the best policy.	The crow could not find water.	Please, help me in this question.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. The hardworking team won the match. What type of sentence is it?	Simple Sentence	Compound Sentence	Complex Sentence	Compound-Complex Sentence	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. We passed the examination. Which tense is used in this sentence?	Simple present	Simple past	Past perfect	Past continuous	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

—15A-II 2301—

9th Class FEDERAL 2023



2
ENGLISH COMPULSORY SSC-I

2

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Sections B and C comprise pages 1-2. Answer all the questions from Sections 'B' and 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION - B (Marks 40)

Q. 2 Read the following passage carefully and answer any FIVE questions including Question No. (i) appended to it.
Note: Question (i) about summary writing is compulsory carrying 06 marks while rest of the questions carry 03 marks each. (6+4x3=18)

One day, standing at the beside of a young patient, I wondered if she could make the same recovery like others. Hira had received severe head and spinal injuries as she was hit by a speeding bus while crossing the busy road. I took her lifeless arms in my hand and tried to do several exercises on her but in vain. Also, I asked her younger sister to come and talk to her, thinking that the voice of near and dear one might activate the nearly dead neurons. She could see but not talk. Her eyes showed a certain helplessness. I could read her mind through her eyes. Perhaps she wanted to say, "Please help me". A fellow nurse came near me and asked, "Rahila, what are you doing? Fighting a last battle?" I was shocked at first to hear a colleague making a hopeless comment. Then I replied, "I am trying to make her brain process by her sister's voice. This might help her walk like normal person". Meanwhile, a senior doctor on duty, walked in. He gave me an ironic smile and said, "If you spend most of your duty hours on one patient, we will have to recruit more nurses to attend other patients. Please go and see the other patients. We do not have much hope for her. I don't think that she could ever walk, again". I was upset. The advice to leave the patient unattended did not seem right. I knew that she has suffered from major neural damage, but she needed to be given a chance. An inner voice somewhere within me spoke, "Try once for her". I went to the senior nurse and told her that I wanted to help this patient and work with her more closely. The senior nurse looked at me with utter surprise and remarked that she had orders from the doctor in charge to shift her to the general ward. The doctors thought she was hopeless case and the bed must be spared for other patients.

QUESTIONS:

- (i) Write down the summary of the passage. Also suggest a suitable title. (5+1=6)
- (ii) What happened to Hira?
- (iii) To what extent does the recovery of a patient depend upon the doctor and the nurse?
- (iv) Why younger sister of Hira was asked to have conversation with patient?
- (v) Explain the phrase: "Try once for her".
- (vi) Describe some qualities of the nurse mentioned in the passage.
- (vii) Give the synonyms of the underlined words. (Any three)

Q. 3 a. Paraphrase any ONE of the following stanzas:

- (i) I wandered lonely as a cloud,
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.
 - (ii) Be still, sad heart, and cease repining;
Behind the clouds is the sun still shining;
The fate is the common fate of all,
Into each life some rain must fall,
Some days must be dark and dreary.
- OR

b. Read the following stanza carefully and answer the questions given at the end: (06)

- (i) He gave his harness bells a shake
To ask if there is some mistake.
The only other sound's the sweep
Of easy wind and downy flake;

QUESTIONS:

- (i) Write the rhyming words from the stanza. (1)
 - (ii) Explain the phrase "of easy wind and downy flake". (1)
 - (iii) Write the meaning of underlined words. (Any two) (1)
 - (iv) Who is shaking harness bell and for whom? (1)
 - (v) Which poetic device is used in this stanza? (2)
- OR



(ii) The angle wrote, and vanished. The next night
It came again with a great wakening light,
And showed the names whom love of God had blest,
And Lo! Ben Adhem's name led all the rest.

- QUESTIONS:
- (i) Write down the rhyme scheme of the stanza. (1)
 - (ii) What was the angle writing? (1)
 - (iii) Give the meanings of the underlined words. (Any two) (2)
 - (iv) How did the angle come again? (1)
 - (v) Why was Ben Adhem's name on the top of the list? (1)

Q. 4 a. Fill in the blanks using the passive voice form of the verbs given in brackets to complete the passage. (05)

First of all, water is _____ (take) in a pan and it is _____ (boil) on medium flame. Then sugar and coffee are _____ (beat) in the cup by hand for fluffiness. Then boiling water is _____ (pour) in the slurry and adjustable changes are _____ (make) as per requirement. The coffee is then _____ (serve) and _____ (enjoy).

b. Change the underlined Verbs of the following sentences as directed in the brackets. (any five) (05)

- (i) He _____ here yesterday. (come)
- (ii) If he works hard, he _____ the competition. (win)
- (iii) If you _____, I shall be available. (want)
- (iv) When you _____ tomorrow? (go)
- (v) She _____ (not prepare) for the party yet.
- (vi) It _____ (rain) since morning.
- (vii) We _____ (be) fond of travelling in summer vacation.



c. Punctuate the following para/line(s): (03)
The rasool (ﷺ) and his close companion hazrat abu bakr Siddique (رضي الله عنه) migrated from makkah to madinah in the year 622 ad.

SECTION - C (Marks 20)

Q. 5 Write an email to your friend thanking him / her for a gift on your birthday. (08)

OR

Write an application to the Principal for a character certificate.

Q. 6 Write a paragraph of about 80 to 100 words on any ONE of the following: (06)
"Importance of Fashion"

OR

"A visit to an Industrial Exhibition"

Q. 7 Translate the following passage into Urdu: (06)
Now education upto middle level is free of cost so the children of the poor will be able to get the education. Government of Pakistan has nationalized all schools and colleges. All the citizens of the country have equal rights and government will award scholarships to intelligent students. They will be able to get higher education. We shall make Pakistan strong and make efforts for its development.

OR

Write a dialogue between a student and a teacher about SLO based examination.



ROLL NUMBER

Version No.
1 0 3 1



2023

اردو ایس ایس سی - I
حصہ اول (کل نمبر 15)
وقت: 20 منٹ

Section - A is compulsory. All parts of this section are to be answered on this page and handed over to the Centra Superintendent. Deleting/overwriting is not allowed.

Do not use blue pencil.
حصہ اول لازماً حل کرنا ہے۔ اس حصہ کی تمام سوالات کو اس کا جواب دینا ہے۔ حذف/تعمیر و تراویح کی اجازت نہیں ہے۔

ⓐ	ⓑ	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	ⓗ
①	②	③	④	⑤	⑥	⑦	⑧
⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔
㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜
㉝	㉞	㉟	㊱	㊲	㊳	㊴	㊵
㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽
㊾	㊿	⓫	⓬	⓭	⓮	⓯	⓰
⓱	⓲	⓳	⓴	⓵	⓶	⓷	⓸

ⓐ	ⓑ	ⓒ	ⓓ
①	②	③	④
⑤	⑥	⑦	⑧
⑨	⑩	⑪	⑫
⑬	⑭	⑮	⑯
⑰	⑱	⑲	⑳
㉑	㉒	㉓	㉔
㉕	㉖	㉗	㉘
㉙	㉚	㉛	㉜
㉝	㉞	㉟	㊱
㊲	㊳	㊴	㊵
㊶	㊷	㊸	㊹
㊺	㊻	㊼	㊽
㊾	㊿	⓫	⓬
⓭	⓮	⓯	⓰
⓱	⓲	⓳	⓴
⓵	⓶	⓷	⓸
⓹	⓺	⓻	⓼
⓽	⓾	⓿	Ⓚ
Ⓛ	Ⓧ	Ⓨ	Ⓩ
ⓐ	ⓑ	ⓒ	ⓓ

Answer Sheet No. _____

Candidate Sign. _____

Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum:

سوال	الف	ب	ج	د	وقت	ب	ج	د
1. قوموں سے کونسی قوم کبھی نہیں بنتی؟	ہند	چین	پار	پار	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. جلا سے پانی کو مائل بنانے کے لیے؟	فلس	سولار	فلس	فلس	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. دو مٹی کے گولے کون سے گولے بنتے ہیں؟	ایک سے زیادہ گولے	دونوں گولے	بہت سے گولے	متراف گولے	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. کدو کے پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. تھیر میں مشین کو چلانی کیا کہتے ہیں؟	مشین	مشین	موتور	موتور	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. ہم آواز ہونے کو کیا کہتے ہیں؟	اداس	کادو	اداس	اداس	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. جوڑو کو کونسی مشین کہتے ہیں؟	کادو	اداس	اداس	اداس	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. کدو کی پتوں میں مشین کو کیا کہتے ہیں؟	موتور	مشین	موتور	موتور	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. پلاسٹک کے مادے کو کیا کہتے ہیں؟	پلاسٹک	پلاسٹک	پلاسٹک	پلاسٹک	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. کدو کی پتوں کی شکل؟	دائری	کھنڈی	مربع	مربع	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>





کل نمبر حصہ دوم اور سوم: 60

نوٹ: حصہ دوم اور سوم 2-1 صحت پر مشتمل ہیں۔ ان سوالات کے جوابات بطور سے مہیا کی جائیں گے اور ایک پر ریڈ آپ کے جوابات ملاحظہ اور راجح کر لے جائیں۔

حصہ دوم (کل نمبر 34)

(8x2 = 16)

سوال نمبر 6: حصہ ب

دو مثالیں مہیا کر کے گورسے پر پیش اور دیکھتے ہوئے سوالات میں سے آٹھ کے جوابات لے کر لائیں گے۔
اسلام کی خاص خوبی ہے کہ اسلام کی سے نہیں پوچھتا کہ وہ ترک ہے یا ایک۔ وہ افریقہ میں پیدا ہوا ہے یا ہندوستان میں، وہ کالے رنگ کا ہے یا گورے رنگ کا، بلکہ جنوں نے مراد لائی کہ تو خدا کو منگھ کیا، حقہ ہو کر ایک قوم ہو گئے۔ لیکن اس بات کے دیکھنے سے ثابت نہیں ہے کہ ہم مشرق اور ان کے ہمسف کے ہیں یا کہ انہوں نے اپنی اور صحت کی دلی اور ایک جہت کہ ہے۔ جس سے وہ صحت کا ہر جہت پر اپنا جہت ہے۔ جس کا نتیجہ انہوں کی، اللہ کی ہے۔ شیطان جس نے خدا سے وعدہ کیا تھا کہ میں ضرور ان کو چیری مراد سے تم سے باگروں گا، ایک حقہ کن اور پھر نہ لہت کرنا لی جئے سے انہوں میں برائیوں کے جن کو خدا نے برائی بنایا ہے، خالق اللہ نے میں کامیاب ہو جاتا ہے اور جس طرف کہ وہ سے باپ حضرت آدم اس کے دوسرے میں آگے ہی طرف ہم بھی شیطان کے دوسرے میں آجاتے ہیں اور اس نفاق کو جو ہر حالت میں مرد ہے ایک حقہ کن لہاں بہت ہے۔

سوالات:

- (i) مہارت کا سر کی خیال لکھیے۔
- (ii) ہم کس طرح اور ان کو صحت کسوں ہیں؟
- (iii) شیطان بے سب سے پہلے کس کو دھوکا دیا؟
- (iv) شیطان کس حیثیت سے نفاق لایا ہے؟
- (v) کلا تو خدا کو منگھ کر لے گا کیا لایا کہ وہ صحت ہے؟
- (vi) اسلام کی خاص خوبی کیا ہے؟
- (vii) شیطان نے لفظ خالق سے کیا وعدہ کیا تھا؟
- (viii) ہم شیطان کے دوسرے میں آکر کیا نظر لگتے ہیں؟
- (ix) خالق کی کیا جہت لگتی ہے؟



ب: حصہ شہرہ

(5x2 = 10)

دو مثالیں مہیا کر کے گورسے پر پیش اور دیکھتے ہوئے سوالات میں سے چار کے جوابات لکھیں۔

- (i) چہ تیرے گستاخ میں بھی فعلی خواہاں کا ...
- (ii) نہ دشمن سے نہ لگ سے، نہ بڑے سے نہ لگ سے
- (iii) نہیں سنا کوئی مری انکار، نہ کہوں جو تم سے تو کیا کروں
- (iv) ان کی نظر میں شوکت، بچان نہیں کسی کی
- (v) آنکھوں میں نہیں ہا ہے، جن کے جلال تیرا
- (vi) چہ تیرے گستاخ میں بھی فعلی خواہاں کا ...
- (vii) نہ دشمن سے نہ لگ سے، نہ بڑے سے نہ لگ سے
- (viii) نہیں سنا کوئی مری انکار، نہ کہوں جو تم سے تو کیا کروں
- (ix) ان کی نظر میں شوکت، بچان نہیں کسی کی
- (x) آنکھوں میں نہیں ہا ہے، جن کے جلال تیرا

سوالات:

- (i) جب کسی چیز سے حال ہے؟ (بحوالہ شعر)
- (ii) شاعر کو زمین، لگ، ہنر اور لگ سے کیا لگا ہے؟ (بحوالہ شعر)
- (iii) کن کو کوئی نظر میں کسی کی شوکت، نہیں بچتا؟ (بحوالہ شعر)
- (iv) شاعر نے اپنی کس بد نصیبی کو لکھا ہے؟ (بحوالہ شعر)
- (v) شاعر نے کن چیزوں کو لہا ہیراں شکر کیا ہے؟ (بحوالہ شعر)
- (vi) شاعر کے مطابق جہان میں کون سا اور چل رہا ہے؟ (بحوالہ شعر)

(4x2 = 8)

- (i) ہزاروں سے کیا مراد ہے؟ ایک مثال لکھیں۔
- (ii) روایت کی ایک مثال تحریر کریں۔
- (iii) ہزاروں سے کیا مراد ہے؟ ایک مثال لکھیں۔
- (iv) روایت کی ایک مثال تحریر کریں۔
- (v) جب کسی چیز سے حال ہے؟ (بحوالہ شعر)
- (vi) شاعر کو زمین، لگ، ہنر اور لگ سے کیا لگا ہے؟ (بحوالہ شعر)
- (vii) کن کو کوئی نظر میں کسی کی شوکت، نہیں بچتا؟ (بحوالہ شعر)
- (viii) شاعر نے اپنی کس بد نصیبی کو لکھا ہے؟ (بحوالہ شعر)
- (ix) شاعر نے کن چیزوں کو لہا ہیراں شکر کیا ہے؟ (بحوالہ شعر)
- (x) شاعر کے مطابق جہان میں کون سا اور چل رہا ہے؟ (بحوالہ شعر)



6
حصہ سوم (کل نمبر 26)

(5) متوجہ دل میں سے کسی ایک عبارت کی تفسیر کریں۔
 اللہ۔ زبان بھی مثل اور حیوانوں کے ایک حیوان ہے اور جب کہ اس کے دل قوی کی حرکت بہت ہے اور کام میں لگنا لال جان تو وہی جانی صحت میں بڑھتا ہے اور
 جسمانی اثر میں مشغول ہو جاتا ہے۔ اور انسانی صلت کو کو کر چہ ان میں جانتے ہے۔ جس پر انسان پر لازم ہے کہ وہ اپنے اور قوی کو جو کہنے کی کوشش میں ہے اور ان کو
 ہے کارنہ چہ لہے۔

یہ بات ہم کو بتانی نہیں چاہیے کہ ان دونوں حالتوں کے سوا اور بھی حالتیں ہوتی ہیں کہ وہ ان سے ساتھ ساتھ آسکتے ہیں، جس سے ہم تک قوموں اور ملکوں کو ایک
 قوم اور کام میں روانہ کرنا ہوتا ہے۔ شریک نہیں ہیں، مگر بہت سے قومی امور ہیں جن میں ہم اور وہ مل جاتے ہیں کہ شریک نہیں ہیں۔ اس لئے کہ ایک بڑے
 ہے اور یہی ساری صحت پانچ پانچ ہے مگر اس کی اور ہم قومی کی وصیت تک نکلی گئی ہے۔

(5) متوجہ دل میں سے کسی ایک لفظ بڑی آسان لفظوں میں تفسیر کریں۔
 اللہ۔ کیا کیا دنگے ہیں یا رب! سماں تیری قدرت ہے۔ داؤ بہت میں ہے کن کسی کا رہن
 چلے ہی دنگ کیا کیا، ہر آن تیری قدرت ساتھ ہے وہ گئی۔ ایک مری آرزو
 سب مت اور ہے کیا، بچان تیری قدرت ہیرا، لٹس جنوں، درگہ میرا دل
 ہیرا پڑے ہی، بچان تیری قدرت میرا لٹس بھی تو، شہزاد لٹس بھی تو

(5) دو جملوں میں سے کسی ایک جملہ بڑی آسان لفظوں میں تفسیر کریں۔
 اللہ۔ لہجوں کو پانچوں سے نہ بچتا ہے مگر۔ اٹنی ہو گئی سب تھیں، بچہ نہ دوائے کام کیا
 قسمت میں تیر گئی تھی لٹس ہیرا میں دیکھا اس چاہی دل سے آخر کام تمام کیا
 ان حرکتوں سے گڑو گئی اور جا بھیں ہمد جہاں دو دو کا، تیری میں لٹس آگئیں سوز
 اتنی بچہ کہاں ہے دل، داؤ، دار میں لٹس رات بہت تھے نہ گئے، بچہ ہوئی کام کیا

(6) جلسہ تقسیم اعزازات کی روداد لکھیں۔
 ایک پرائمری سکول بنگ کی آپ بیتی لکھیں۔
 (5) مرثیوں اور ڈاکٹروں کے اور مہمانوں کا ذکر کریں۔ وہی انعامات کے ماوراء ہے کے موضوع پر کم از کم پانچ جملے لکھیں۔





7
Version No.
9 0 5 1

ROLL NUMBER

7
اسلامیاتی 2023

ISLAMIYAT COMPULSORY (NEW) SSC-I

SECTION - A (Marks 10)

Time allowed: 15 Minutes
Section - A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Detaching/writing is not allowed. Do not use lead pencil.
مدت مقررہ وقت: 15 منٹ
اس سیکشن کے تمام حصے اس صفحہ پر لکھے جانے چاہئے اور اسے سینٹر سپرنٹنڈنٹ کو ہاتھ کر دیا جائے گا۔ لکھنے کے لیے لیڈ پینسل استعمال نہ کریں۔

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

Answer Sheet No. _____

Invigilator Sign. _____

Candidate Sign. _____

Question	A	B	C	D	A	B	C	D
1. Which believer is declared better by the Prophet (ﷺ)? کونسا ایمان والہ کو نبی کریم ﷺ نے بہتر قرار دیا ہے؟	Wealthy غنی	Poor فقیہ	Weak کمزور	Powerful مقتدر	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. When did Hazrat Zain ul Abidin (رضی اللہ عنہ) die? حضرت زین العابدین رضی اللہ عنہ کی وفات کب ہوئی؟	85 Hijri 85ھ	90 Hijri 90ھ	95 Hijri 95ھ	98 Hijri 98ھ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Which two blessing are NOT appreciated by most people? کون سے دو برکتیں اکثر لوگوں کی قدر نہیں کی جاتی؟	Exercise & engagement دوڑنا اور مصروفیت	Health & leisure صحت اور فراغت	Money & wealth پانہ اور دولت	Sports and leisure کھیل اور فراغت	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. In which of the following surah of Holy Quran, aqeedah lowheed is described? قرآن مجید کی کون سی سورت میں اہل حق و باطل کی تمیز کی ہے؟	Al-Kausar الکوثر	Al-Akhlas الاحکاس	Al-Falaq الفلق	An-Naas الناس	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. What is the number of Hadiths narrated by Abdullah Bin Amr (رضی اللہ عنہ)? عبد اللہ بن عمرو رضی اللہ عنہ نے کتنی حدیثیں روایت کی ہیں؟	300 تین سو	500 پانچ سو	700 سات سو	900 نہ سو	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Who did ibnees envy first? پہلے سے پہلے ایبے نے کس کو حسد کیا؟	Hazrat Ibrahim (رضی اللہ عنہ) حضرت ابراہیم رضی اللہ عنہ	Hazrat Musa (رضی اللہ عنہ) حضرت موسیٰ رضی اللہ عنہ	Hazrat Muhammad (ﷺ) حضرت کریم ﷺ	Hazrat Adam (رضی اللہ عنہ) حضرت آدم رضی اللہ عنہ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. When did Invasion of Tabuk take place? تباوک کی فوجی سرکشی کب ہوئی؟	8th Hijri 8ھ	9th Hijri 9ھ	10th Hijri 10ھ	11th Hijri 11ھ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. How many fasts are required to make atonement for Qasm? قسم کی تلافی کے لیے کتنے روزے رکھنے کی ضرورت ہے؟	3	4	5	6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. The Prophet (ﷺ) declared prayer as: نبی کریم ﷺ نے نماز کو کیا قرار دیا؟	Light of eyes آنکھوں کی روشنی	Light of Heart دل کی روشنی	Coldness of eyes آنکھوں کی سردی	Coldness of heart دل کی سردی	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. At which Prophet, the chain of Prophet hood ended? کون سے نبی کریم ﷺ کی پیمبری ختم ہوئی؟	Hazrat Noah (رضی اللہ عنہ) حضرت نوح رضی اللہ عنہ	Hazrat Musa (رضی اللہ عنہ) حضرت موسیٰ رضی اللہ عنہ	Hazrat Ibrahim (رضی اللہ عنہ) حضرت ابراہیم رضی اللہ عنہ	Hazrat Muhammad (ﷺ) حضرت کریم ﷺ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

ISA-II 2305 (N)

8
ISLAMIYAT COMPULSORY SSC-I
(NEW)



Time allowed: 2:15 Hours

Total Marks Sections B, C and D: 40

NOTE: Answer the questions given in the sections B, C and D on the separately provided answer book according to instructions.

SECTION - B (Marks 10) (حصہ دوم)

Q. 2 Write short answers to any FIVE of the following questions according to syllabus: (5x2=10)

(5x2=10)

- | | |
|--|--|
| (i) The famous arab poet Farzdaq wrote the Qasida in the honour of Hazrat Imam Zain ul Abidin. Write its translation or meaning. | (i) مشہور عرب شاعر فرزدق نے حضرت امام زین العابدین کی شان میں یہ قصیدہ لکھا اس کا ترجمہ یا معنی لکھیں۔ |
| (ii) Briefly explain, what is called Sahifa Sadiqah? | (ii) مختصر ساڈا کی کیا ہے؟ مختصر روایات لکھیں۔ |
| (iii) Write a short note on the life and character of Hazrat Shifa Bint Abdullah. | (iii) حضرت شہادت ہدیہ کی زندگی اور کردار پر مختصر نوٹ لکھیں۔ |
| (iv) What are the effects of physical exercise on our body? Write any four points. | (iv) جسمانی ورزش کے ہمارے جسم پر کیا اثرات مرتب ہوتے ہیں؟ ان کی سے چار نکات لکھیں۔ |
| (v) Who was Hazrat Ume Sulaim? Give a brief Introduction. | (v) حضرت ام سلیم کون تھیں؟ مختصر تعارف بیان کریں۔ |
| (vi) Write any two sayings of Hazrat Khawaja Nizam ud Din Aulia (رحمۃ اللہ علیہ). | (vi) حضرت خواجہ نظام الدین اویلیہ کی دو قولوں کو لکھیں۔ |
| (vii) Write the names of two famous works (books) of Allama Ibn Khaldun (رحمۃ اللہ علیہ). | (vii) علامہ ابن خلدون کی دو مشہور تصانیف کے نام لکھیں۔ |

SECTION - C (Marks 16) (حصہ سوم)

Note: Attempt any TWO questions. All questions carry equal marks: (2 x 8 =16)

- Q. 3 Write the benefits and fruits of prayer in the light of Quran and Sunnah.
 Q. 4 Explain the meaning of generosity. Also give examples of generosity and self-sacrifice from the Messenger (صلی اللہ علیہ وسلم) of Allah (ﷻ).
 Q. 5 Explain in detail the types and effect of monotheism.

(2 x 8 =16)



SECTION - D (Marks 14) (حصہ چہارم)

Q. 6 Read the following Quranic Verses with their translations and answer the questions appended to any three of these: (3 x 3 = 9)

سوال نمبر 6۔ درج ذیل آیات پڑھیں اور ان میں سے کوئی سے تین کے انگریزی ترجمے کے ساتھ ان کے جوابات تحریر کریں۔

- (i) **فَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱) **فَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱) **فَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱)
 ان میں سب کے سب فرشتوں نے اپنے سہمہ کا سوا سے انہیں سے۔ اس نے کفر کیا اور انہوں نے اس سے بول کیا۔

So the angles prostrated themselves, all of them except Iblis, he was proud and was one of the disbelievers.

- a. What did the angles do on Allah's command? (01) انہوں نے اس کے حکم پر فرشتوں سے کیا کیا؟
 b. Why did Iblis disobey Allah's order? (01) ابلس نے اللہ کے حکم کی نافرمانی کی کی؟
 c. What became of Iblis? (01) ابلس کا انجام کیا ہوا؟
 (ii) **وَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱) **وَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱) **وَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (۱)
 اور ان میں سے کوئی بھی نہیں ہے جو کفر کرنے سے باز رہے تاکہ اللہ کے غضب سے محفوظ رہے۔ انہوں نے انہیں سے بول کیا اور انہوں نے اس سے بول کیا۔

And of mankind is he who purchases idle talks to mislead from the path of Allah (ﷻ) without knowledge and takes it (the verses of Quran) by way of mockery. For such there will be a humiliating torment.

- a. Explain the meaning of **وَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ** (01) انہوں نے اللہ کو سب کیا اور کفر کیا۔
 b. What is meant by **وَلْيَسُبُّوا اللَّهَ يَكْفُرُوا بِهِ**? (01) کیا اس کا مطلب ہے کہ اللہ کو سب کرنا اور کفر کرنا؟
 c. What will be the fate of those who make fun of Allah's verses? (01) انہوں نے اللہ کی آیات کو مذاق میں لے کر ہنس کر کیا کیا؟

9.

(III) ... وَأُولَٰئِكَ سَنُقَدِّرُ لَهُمُ أَجْرَهُمْ وَلَا نُجْزِيهِمْ إِلَّا بِمَا كَانُوا عَمِلُوا ...
اور جس سے منہ کھارے کر کے ان کو دوزخ میں لے گا ...
And when it is said to them, spend of that with which Allah (SWT) has provided you, those who disbelieve say to those whom believe, shall we feed those whom if Allah (SWT) willed, he would have fed.

- a. What is meant by ... (01) ...
- b. What stubbornness of disbelievers is described? (01) ...
- c. What did the believers use to advise the disbelievers of Makkah? (01) ...

O Mankind! Be afraid of your Lord and fear the day when no father can avail any favor for his son nor a son avail any favor for his father. No doubt, the promise of Allah (SWT) is true.

- a. What is meant by ... (01) ...
- b. What two things are encouraged for all human beings to fear? (01) ...
- c. What is meant by Allah's (SWT) promise? (01) ...

Q. 7. Read the following Ahadith with their translations and answer the questions appended to any one of these:
(05)

(i) أَحْسَنُ الْبَرِّ بَيْنَ الْإِنْسَانِ أَحْسَبُهُمْ خُلُقًا، وَحَسْبُهُمْ حَسْبُهُ لِحَسْبِ الْبَرِّ لِحَسْبِ الْبَرِّ.

The most perfect believer among the believers is the one who is the best in his conduct and the best of them are those who are best to their wives.

- a. What is meant by ... (01) ...
- b. Who is the most perfect believer? (01) ...
- c. Relate this blessed Hadith to our practical life. (01) ...

The messenger of Allah (SWT) said about the major sins: Associating partners with Allah (SWT) and disobeying parents and killing and telling lies.

- a. Explain the meaning of ... (01) ...
- b. What are the major sins? (01) ...
- c. Relate this blessed Hadith to our practical life. (01) ...





**PHYSICS SSC-I
SECTION - A (Marks 12)**

Time allowed: 15 Minutes
Section - A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Detaching or rewriting is not allowed. Do not use lead pencil.



Version No. 10

ROLL NUMBER 15

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

PHYS
202

Answer Sheet No. _____

Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum: Candidate Sign. _____

Question	A	B	C	D	A	B	C	D
1. How many millimeters are there in 200cm? 200mm 2000mm	200mm 200mm	600mm 600mm	800mm 800mm	2000mm 2000mm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. If an object is moving with constant speed then its distance-time graph will be: Distance (y) time (x)					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. When a car is moving with velocity $40ms^{-1}$ slows down uniformly to $20ms^{-1}$ in 4 second. Then the retardation produced by the car is: $40ms^{-1}$ $20ms^{-1}$	$-3ms^{-2}$	$-4ms^{-2}$	$-5ms^{-2}$	$-6ms^{-2}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. An object is taken from earth to moon should have: Less mass/same weight Same mass/more weight Same mass/less weight Less mass/less weight	Less mass/same weight	Same mass/more weight	Same mass/less weight	Less mass/less weight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. The unit of co-efficient of friction is: N kg watt It has no unit	N	kg	watt	It has no unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Two masses are separated by a distance r . If both masses are doubled, the force of interaction between the two masses changes by a factor: 2 times 4 times $\frac{1}{2}$ times $\frac{1}{4}$ times	2 times	4 times	$\frac{1}{2}$ times	$\frac{1}{4}$ times	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. According to first condition of equilibrium: $\sum F_x = 0$ $\sum F_y = 0$ $\sum \tau_x = 0$ $\sum \tau_y = 0$	$\sum F_x = 0$	$\sum F_y = 0$	$\sum \tau_x = 0$	$\sum \tau_y = 0$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. The angle at which X and Y components of a force are equal is: 0° 30° 45° 60°	0°	30°	45°	60°	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question	A	B	C	D	A	B	C	D
9. A man weighing 600 N takes 90 s to reach the top of a hill 8m high. Her average muscle power is: اس کا وزن 600 N ہے اور وہ 90 سیکنڈ میں 8 میٹر اونچے پہاڑ کی چوٹی تک پہنچتا ہے۔ اس کی اوسط عضلاتی طاقت کیا ہے؟	3.24 W 3.24	32.8 W 32.8	50 W 50	250 W 250	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Which of the following is NOT used to measure pressure? کدام واحد پیمائش کے لیے نہیں ہے؟	Atm	Pa	Bar	Kgm ⁻³	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. 310 K in centigrade scale is: 310 K سینٹی گریڈ اسکیل پر کیا ہے؟	37°C	310°C	63°C	273°C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. The best absorber of radiation is a body whose surface is: بہترین تابکاری کا جذبہ کرنے والا جسم اس سطح کا ہے؟	White	Grey	Dull black	Highly polished	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

—ISA-II 2307-1071—

ROLL NUMBER				

$$F = G \frac{m_1 m_2}{r^2}$$

$$a = \frac{(v_f - v_i)}{t}$$

$$T_c = T_k - 273$$

$$g_{moon} = 1.6 \text{ms}^{-2}$$

$$f_s = \mu_s (mg)$$

$$P = \frac{F \cdot A}{l}$$

$$g_e = 10 \text{ms}^{-2}$$

$$\frac{F}{F_s} = \tan \theta$$





Time allowed: 2:45 Hours

Total Marks Sections B and C: 53

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

SECTION - B (Marks 33)

Q. 2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)

- (i) The hair of a horse grow at the rate of 0.5mm per day. Find their growth rate in $mm\ s^{-1}$.
- (ii) Under what condition will displacement be equal to distance?
- (iii) A train starts from rest. It moves through 2km in 100s with uniform acceleration. What will be its speed at the end of 100s?
- (iv) Briefly explain the term 'inertia'.
- (v) A body has weight 40N. How much force is required to move it with a string vertically upward with acceleration of $2ms^{-2}$.
- (vi) Why is a vehicle made heavy at the bottom? Its height is also kept as low as possible. Explain briefly.
- (vii) A force of 200N makes an angle of 60° with x-axis. Resolve this force into rectangular components.
- (viii) Calculate the mass of earth using law of gravitation. (Diagram is not required)
- (ix) Calculate the energy released if two kilogram of uranium is completely converted into energy.
- (x) Write a short note on green house effect.
- (xi) What is meant by elasticity? Also compare stress and strain.
- (xii) What is power? Write its formula and S.I unit.
- (xiii) Why are small gaps left when the steel girders are installed in walls?
- (xiv) Evaporation causes cooling. Explain briefly with one example.
- (xv) In certain places, birds can fly for hours without flapping their wings. Explain briefly.

SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3 a. Explain different types of motion and give an example of each.
- b. A bullet of mass 40g moving with velocity of $20ms^{-1}$ penetrates into a sand bag and is brought to rest in 0.1s. Find (a) the depth of penetration in metres. (b) The average retardation force exerted by sand bag in newton.
- Q. 4 a. What is meant by resolution of force? How can a force resolved into rectangular components? Explain with example.
- b. Derive the formula for the orbital speed of an artificial satellite.
- Q. 5 a. State and explain Archimedes principle.
- b. Make the following conversion:
 - (i) $0^\circ C$ to Kelvin
 - (ii) $273^\circ C$ to Kelvin
 - (iii) $0K$ to Celsius
 - (iv) $100^\circ F$ to Celsius



— 15A-II 2307 —

$v_f = v_i + at$	$S = v_i t + \frac{1}{2} at^2$	$F_{net} = T - W$
$F_x = F \cos \theta$	$F_y = F \sin \theta$	$P = \frac{F}{A}$
$g_e = 10ms^{-2}$	$R_e = 6.4 \times 10^6 m$	$G = 6.673 \times 10^{-11} N m^2 kg^{-2}$
$E = mc^2$	$F = mv$	$2as = v_f^2 - v_i^2$



CHEMISTRY SSC-I
SECTION - A (Marks 12)

Time allowed: 20 Minutes
Section - A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Detaching or rewriting is not allowed. Do not use lead pencil.

وقت دیئے ہوئے میں اس سیکشن کے تمام حصے کو حل کرنا ضروری ہے۔ اس سیکشن کے تمام حصے اس صفحہ پر حل کرنا ہوں گے اور اسے سربراہ مراکز کو ہاتھ کر دینا ہے۔ لکڑی کی قلم لکھنا ممنوع ہے۔



Version No.
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ROLL NUMBER

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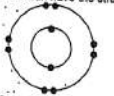
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Answer Sheet No. _____

Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum: Candidate Sign. _____

Question	سوال	A	B	C	D	A	B	C	D
1. The atomic mass number of an element is 35. It has 17 protons in its nucleus. What number of neutrons it will have in its nucleus? ایک عنصر کے ایٹمی کمیت کا نمبر 35 ہے اور اس کے نукلیس میں 17 پروٹون ہیں۔ اس کے نукلیس میں کتنے نیوٹرون ہوں گے؟	17	18	19	20		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Acetic acid is a colorless liquid with a characteristic vinegar like smell. The use of technology and ways to obtain acetic acid on the large scale comes under: وینکے تیار کرنے کا رنگ بے رنگ مائع ہے اور اس کا بوی خاص ہے۔ اسے بڑے پیمانے پر حاصل کرنے کے لیے تکنیکی طریقے اور طریقے استعمال کیے جاتے ہیں۔ اس کا استعمال کس شعبے میں آتا ہے؟	Inorganic Chemistry اہم بیانیہ کیمسٹری	Bio Chemistry بیو کیمسٹری	Industrial Chemistry صنعتی کیمسٹری	Analytical Chemistry تحلیلی کیمسٹری		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Find out the position of Cl in the periodic table by considering its electronic configuration: $1s^2, 2s^2, 2p^6, 3s^2, 3p^4$ کلورین (Cl) کی ایٹمی نمبر اور اس کے الیکٹرونک کنفیگریشن سے اس کی پوزیشن معلوم کریں۔	Period=2, Group=6 دوسرا دورہ، چھواں گروپ	Period=3, Group=2 تیسرا دورہ، دوں گروپ	Period=3, Group=7 تیسرا دورہ، ساتواں گروپ	Period=5, Group=2 پنچواں دورہ، دوں گروپ		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. In the following reaction identify whether 'O' has been oxidized or reduced? $2H_2 + O_2 \rightarrow 2H_2O$ ذیل دی گئی تفاعل میں 'O' کی حالت تبدیل ہوئی ہے۔ اسے پہچانیں کہ اسے آکسائیڈ کیا گیا ہے یا ریڈیوس کیا گیا ہے۔	Oxidized آکسائیڈ	Reduced ریڈیوس	First oxidized then reduced پہلے آکسائیڈ ہوا اور پھر ریڈیوس ہوا	Neither oxidized nor reduced نہ آکسائیڈ ہوا نہ ریڈیوس ہوا		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Which one of the following is used to estimate the age of carbon-containing substances in a process called carbon dating? کون سا درج ذیل طریقہ کار ہے جس سے کاربن کے ذریعہ پر مشتمل اشیاء کی عمر کا اندازہ کیا جاتا ہے۔ اسے کاربن ڈیٹنگ کہتے ہیں۔	C-12	C-13	C-14	C-15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Metallic elements in the group II-A are called: دوسرے گروپ II-A کے فلکیاتی عناصر کو کہا جاتا ہے۔	Noble metals نوبل فلکیات	Transition metals ٹرانزیشن فلکیات	Alkali Metals آلی فلکیات	Alkaline earth metals آلی فلکیات		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question	A	B	C	D	A'	B'
7. Which one of the following is the correct order representing oxidizing power of halogens? ہالوجنوں کی آکسائیڈنگ پاور کی لاکھڑی کے لحاظ سے درست ترتیب ہے؟	$Br_2 > Cl_2 > F_2$	$F_2 > Cl_2 > Br_2$	$Cl_2 < F_2 < Br_2$	$Cl_2 < Br_2 < F_2$	<input type="radio"/>	<input type="radio"/>
8. Brine is an example of which solution? برائن سوڈن نمک پانی کس قسم کے محلول کا نمونہ ہے؟	Liquid in liquid ایک مائع میں	Solid in Liquid ایک ٹھوس میں	Liquid in Solid ایک مائع میں	Solid in Solid ایک ٹھوس میں	<input type="radio"/>	<input type="radio"/>
9. Which one of the following elements belongs to group II-A? درجہ II-A میں سے کون سا عنصر گروپ II-A سے تعلق رکھتا ہے؟	K	Li	Be	C	<input type="radio"/>	<input type="radio"/>
10. Which one of the following elements is NOT a Noble meta? درجہ I-A میں سے کون سا عنصر نوبل میٹال نہیں ہے؟	Platinum	Silver	Palladium	Gold	<input type="radio"/>	<input type="radio"/>
11. The SI unit of pressure is Pascal (Pa) but it is mostly represented in atm. 1 atm = پریشر (دباؤ) کی SI یونٹ پاسکل (Pa) ہے لیکن اسے زیادہ تر اتموسفیئر میں ہی ظاہر کیا جاتا ہے۔ 1 اتموسفیئر =	101.325 Pa	101.325 kPa	101325 kPa	$1.01325 \times 10^5 kPa$	<input type="radio"/>	<input type="radio"/>
12. Choose the chemical specie from the following options that can have the structure given below: درجہ II-A میں سے کون سا کیمیائی نوعیت اس ذریعہ میں دی گئی ساخت کو اختیار کر سکتا ہے؟		O^{2-}	F^{2-}	Cl^-	S^{2-}	<input type="radio"/>

—ISA-II 2308-1081—

SUPPLEMENTARY TABLE

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

ROLL NUMBER

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CHEMISTRY SSC-I 15



Time allowed: 2:40 Hours

Total Marks Sections B and C: 63

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

SECTION - B (Marks 33)

Q. 2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)

- (i) Differentiate between a compound and a mixture. Give examples of each.
- (ii) Chlorine has two isotopes ($Cl-35$ and $Cl-37$). Draw the complete structure of each isotope showing the number of protons, neutrons and electrons.
- (iii) Briefly explain saturated, unsaturated and supersaturated solutions.
- (iv) Differentiate between oxidation and reduction. (Give at least three comparison points for each.)
- (v) What will be the molarity of the following solutions having:
 - (a) 1 mole of H_2SO_4 per dm^3 (b) 12.1 moles of HCl per dm^3 (c) 18 moles of $NaOH$ per dm^3
- (vi) Write the valence shell electronic configuration of the following elements.
 - (a) Ne (b) O (c) Na
- (vii) Choose the element whose atoms have greater ionization energy in each of the following pairs:
 - (a) Li or Na (b) B or C (c) F or Cl
- (viii) State Charles's law. Derive its mathematical expression.
- (ix) Briefly explain the chemical bonding in methane (CH_4). Also draw electron dot and cross structure for methane.
- (x) Is the given reaction possible? Justify the answer as well.

$$Fe_{(s)} + MgBr_{2(aq)} \rightarrow MgF_{2(aq)} + Br_{2(l)}$$
- (xi) Identify the oxidizing and reducing agents in the following reaction. Also show oxidation number of each atom.

$$WC_2 + 3H_2 \rightarrow W + 3H_2O$$
- (xii) What is corrosion? Enlist the methods used to prevent corrosion.
- (xiii) Use electron dot and cross structures to write the equation for the formation of ionic bond between Mg and O .
- (xiv) In each of the following pairs, choose which oxide is more basic? Give reason.
 - (a) Li_2O or Na_2O (b) MgO or Al_2O_3
- (xv) Find the number of valence electrons in the members of following groups:
 - (a) II-A (b) V-A (c) VII-A



SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3 a. What are allotropes? Discuss the allotropic forms of Carbon and Phosphorus. Draw their structures also.
- b. Calculate the number of atoms/molecules present in each of the following samples:
 - (i) 2.5 moles of carbon dioxide (CO_2) (ii) 0.01 moles of acetic acid (CH_3COOH)
 - (iii) 23 g of sodium (Na) (iv) 5g of hydrogen (H) atoms
- Q. 4 a. Explain the Rutherford's model for the atomic structure. Discuss only the experiment and conclusions.
- b. Represent the formation of cations for the following metals along with discussing the change in electronic configuration in them after forming cations. (i) Mg (ii) Al
- Q.5 a. Discuss the manufacturing of sodium metal from fused sodium chloride in Down's cell. Show reactions occurring at electrodes and draw diagram also.
- b. The Chemistry saying "like dissolves like" is a guiding rule when considering the solubility of a substance. Discuss the molecular basis of solubility of methanol (CH_3OH) and salt ($NaCl$) in water. Also draw diagrams.

— 15A-II 2302 —

SUPPLEMENTARY TABLE

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

$M_r = M_r V_r$



**BIOLOGY SSC-I
SECTION - A (Marks 12)**

Time allowed: 15 Minutes
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.

حصہ اول لازماً پڑھنا ہے۔ اس حصہ کے تمام سوالوں کے جواب اس صفحہ پر لکھ کر دیئے جائیں گے۔ اس صفحہ پر کوئی حذف و تراویح نہیں کی جائے گی۔



Answer Sheet No. _____

Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum: Candidate Sign. _____

Question	A	B	C	D	A	B	C	D
1. The career most associated with the study of plants grown for beautification is: زیادہ تر پھولوں اور سجاوٹ کے لیے پالنے والے پودوں کے مطالعے سے وابستہ پیشہ	Agriculture کاشتکاری	Botany گیاتنا	Forestry لکڑی	Horticulture باغبانی	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Maheem has learned that the brain, spinal cord and peripheral nerves work together. She combined all parts to form: ماہیم نے سیکھا ہے کہ دماغ، ریڑھ کی ہڈی اور حسی اعصاب مل کر کام کرتے ہیں۔ اسے ملا کر وہ نے کیا بنا دیا؟	A cell ایک خلیہ	A tissue ایک نسیجہ	An organ ایک اہرن	An organ system ایک اہرن کا سسٹم	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. What part of an experiment contains the data tables and graphs? تجربے کے کون سے حصے میں ڈیٹا، میبلوں اور گرافس شامل ہیں؟	Analysis تجزیہ	Conclusion نتیجہ	Hypothesis فرضیہ	Result نتیجہ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. A good classification system does all of the following EXCEPT: ایک اچھا درجہ بندی سسٹم سب کچھ کرتا ہے سوائے:	Showing relationship رشتہ دکھانے کا کام	Showing evolutionary trends ارتقاء کی رجحانات دکھانے کا کام	Creating confusion گھبراہٹ پیدا کرنے کا کام	Use one name for an organism ایک ہی نام کے لیے ایک جاندار کا نام دینے کا کام	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Resolution of Electron Microscope can be upto: الیکٹران مائیکروسکوپ کی وضاحتی صلاحیت زیادہ سے زیادہ:	0.2mm 0.2 ملی میٹر	0.2cm 0.2 سینٹی میٹر	0.2nm 0.2 نینو میٹر	0.2m 0.2 میٹر	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Which structure is the site of protein synthesis? کون سا ڈھانچہ پروٹین سازی کا مقام ہے؟	Lysosome لائسوسوم	Mitochondria مائیٹو کونڈریا	Nucleus نیوکلیس	Ribosomes رائبوسوم	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Crossing-over occurs between: کراسنگ اوور کون سے ڈھانچوں کے درمیان ہوتا ہے؟	Sister chromatids of the same chromosome ایک ہی کروموسوم کے سہیلی ڈھانچے	Two different bivalent دو مختلف ڈھانچے	Non-sister chromatids of bivalent ایک ہی ڈھانچے کے سہیلی ڈھانچے	Two daughter nuclei دو بیٹی نکلے	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Uncontrolled cell division is known as: نियंत्रہ نہ ہونے والے خلیوں کی تقسیم کو:	Cancer کینسر	Cytokinesis سائٹو کینیسس	Mitosis مائٹوسس	Growth گروتھ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. What happens to an enzyme when it is denatured? انزائم کے مادہ کو کھارنے سے اسے کیا ہوتا ہے؟	Activation energy is lowered تیز کرنے کی توانی کم ہوتی ہے	It becomes stronger یہ طاقتور ہوتا ہے	It loses its shape اسے اپنا شکلیہ ہوتا ہے	Activation energy is raised تیز کرنے کی توانی بڑھتی ہے	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question	A	B	C	D	A	B	C	D
10. Which of these uses oxygen as the final acceptor? <i>في اي من هذه يستخدم الاكسجين كالمستقبل النهائي</i>	CaMn cycle <i>دورة الكالسيوم والمنغنيز</i>	Electron transport chain <i>سلسلة نقل الالكترونات</i>	Glycolysis <i>التحلل السكري</i>	Krebs cycle <i>دورة كريبس</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. In which part of the alimentary canal is water absorbed? <i>في اي جزء من القناة الهضمية يتم امتصاص الماء</i>	Caecum <i>العمى</i>	Colon <i>القولون</i>	Rectum <i>الشرج</i>	Villi <i>ال villi</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Which of these associations is incorrect? <i>اي من هذه الترابطات غير صحيحة</i>	White blood cells — infection fighting <i>خلايا الدم البيضاء — مكافحة العدوى</i>	Red blood cells — blood clotting <i>خلايا الدم الحمراء — تخثر الدم</i>	Plasma — water, nutrients and wastes <i>البلازما — الماء، المغذيات والنفايات</i>	Platelets — blood clotting <i>الصفيحات — تخثر الدم</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

—194-II 2310—





Time allowed: 2:45 Hours

Total Marks Sections B and C: 53

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

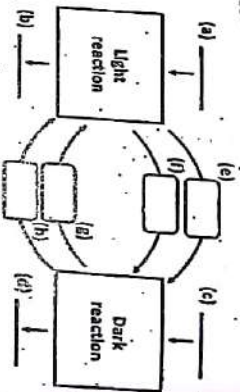
SECTION - B (Marks 33)

Q. 2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)

- (i) How is a Volvox colony different from a Mustard Plant?
- (ii) What is a hypothesis? State the characteristics of a good hypothesis.
- (iii) What advantage is there for two scientists on opposite sides of the world to use a single name for a particular organism?
- (iv) Suppose a new single celled organism has been discovered. This organism has a nucleus, a giant chloroplast and mitochondria. In what kingdom would this organism be placed? Write reasons as well.
- (v) What happens to an animal cell in pure water? Why does a plant cell act differently?
- (vi) Complete the table:

Sr.	Tissue	Location	Function
1.	Cuboidal epithelium		
2.	Nervous Tissues		
3.	Meristematic Tissues		

- (vii) Briefly describe the three phases of Interphase.
- (viii) Compare cytokinesis in plant cells and animal cells.
- (ix) List three ways used by enzymes to lower the activation energy.
- (x) Discuss "Lock and Key Model" of enzyme action.
- (xi) What is fermentation? Mention its importance in daily life.
- (xii) Label any six parts of the given diagram using these labels: water, sugar, carbon dioxide, oxygen, ATP, ADP+P, NADPH and NADP+.
- (xiii) How can Myocardial Infarction be treated?
- (xiv) Why is Rh incompatibility important in blood transfusions?
- (xv) Complete the following table:



Q.No.2 (xii)

Sr.	Obtained from	Used in Plant for	
1.	Carbon dioxide	Atmosphere, through stomata	Making food
2.	Nitrogen		
3.	Magnesium		
4.	Water		

SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3 a. Trace the course of blood from the right ventricle to right atrium (Draw a flow chart).
- b. Describe any two organelles that are found in animal cell, but not in plant cell.
- Q. 4 a. What would happen to a piece of steak, containing only protein as it passes through alimentary canal?
- b. Explain the steps of Calvin Cycle.
- Q. 5 a. Explain the mechanism of food translocation by the theory of Pressure Flow Mechanism.
- b. Describe the problems of Protein Energy Malnutrition (PEM).





MATHEMATICS SSC-I

(Science Group)

SECTION - A (Marks 16)

Time allowed: 20 Minutes

Section - A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deliberate overwriting is not allowed.

Do not use lead pencil.

مطلوبہ وقت: 20 منٹ
حصہ - A لازمی ہے۔ اس حصہ کے تمام حصے اس صفحہ پر جواب دیے جائیں اور اسے سینٹر سپرنٹنڈنٹ کو ہاتھ میں لے کر پیش کیا جائے گا۔
پہلو سے لکھنا ممنوع ہے۔

Version No.	ROLL NUMBER									
1 0 9 1										
● 1 1 ●	○	○	○	○	○	○	○	○	○	○
○ 2 2 ○	○	○	○	○	○	○	○	○	○	○
○ 3 3 ○	○	○	○	○	○	○	○	○	○	○
○ 4 4 ○	○	○	○	○	○	○	○	○	○	○
○ 5 5 ○	○	○	○	○	○	○	○	○	○	○
○ 6 6 ○	○	○	○	○	○	○	○	○	○	○
○ 7 7 ○	○	○	○	○	○	○	○	○	○	○
○ 8 8 ○	○	○	○	○	○	○	○	○	○	○
○ 9 9 ○	○	○	○	○	○	○	○	○	○	○

19. MATH 19
2023



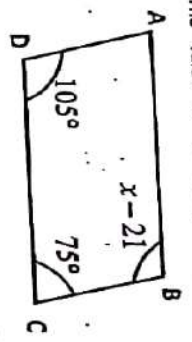
Answer Sheet No. _____

Investigator Sign. _____

Fill the relevant bubble against each question according to curriculum: Candidate Sign. _____

Question	A	B	C	D	A	B	C	D
1. If $\left \frac{1-3}{6} \right = 0$, then value of a is: اگر $\left \frac{1-3}{6} \right = 0$ ہو، تو a کی قیمت کیا ہے؟	$\frac{1}{18}$	1	-18	18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. If $-4, 6 \in R$ then $-4 \times 6 \in R$ is the property w.r.t multiplication. اگر $-4, 6 \in R$ ہو، تو $-4 \times 6 \in R$ کی نسبت کونسی خاصیت ہے؟	Associative تعلقہ	Commutative تبدلی	Closure بند	Distributive تقسیمی	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. $\log_5 8 \times \log_5 125 =$	5	125	3	8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. $a^2 + ab + b^2$ is the factor of: _____ کی ضربی ہے۔	$a^2 + b^2$	$a^2 - b^2$	$(a+b)^2$	$(a-b)^2$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Factors of $x^2 - 11x - 42$ are: _____ کے ضربی ہیں۔	$(x-14)(x+3)$	$(x+14)(x-3)$	$(x-14)(x-3)$	$(x+14)(x+3)$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. $\frac{a}{9a^2 - b^2} + \frac{1}{3a-b} =$	$\frac{a}{3a-b}$	$\frac{a}{3a+b}$	$\frac{1}{3a-b}$	$\frac{1}{3a+b}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. HCF of $x^3 - 5x + 6$ and $x^2 - x - 6$ is: _____ کی HCF ہے۔	$x-3$	$x+2$	$x+3$	$x-2$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. The solution set of $ x+2 = -8$ is: _____ ہے۔	{-10}	{10}	{6}	{ }	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. If $(x+1, y-1) = (0, 0)$ then (x, y) is: اگر $(x+1, y-1) = (0, 0)$ ہو، تو (x, y) کی قیمت کیا ہے؟	(1, -1)	(-1, 1)	(-1, -1)	(1, 1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. The point $(7, -5)$ lies in quadrant: نقطہ $(7, -5)$ کونسی چوتھائی میں ہے؟	I	II	III	IV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question	Urdu	A	B	C	D	A	B	C
11. The value of 'm' in the equation $3x - 5y = -10$ is:	میں $3x - 5y = -10$ کے لیے	$\frac{3}{5}$	$-\frac{5}{3}$	2	-2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. The value of 'x' in given figure is:	دیا گیا شکل میں 'x' کی قیمت	96°	126°	54°	84°	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Measure of two sides of a triangle are 10 and 14. Which can be the third side? ایک مثلث کے دو اطراف 10 اور 14 ہیں۔ تیسری طرف کی قیمت	ایک مثلث کے دو اطراف 10 اور 14 ہیں۔ تیسری طرف کی قیمت	4	20	24	2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Which of the following are the sides of a right angled triangle? کون سے اطراف ایک قائم کون والے مثلث کے اطراف ہیں؟	کون سے اطراف ایک قائم کون والے مثلث کے اطراف ہیں؟	1,2,3	2,3,4	3,4,5	4,5,6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. A quadrilateral having each angle of 90° is called: ہر کون 90° والا چار کون والا شکل کیا کہلاتی ہے؟	ہر کون 90° والا چار کون والا شکل کیا کہلاتی ہے؟	Parallelogram مستطیل	Rectangle مستطیل	Rhombus مربع	Triangle مثلث	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



—ISA-II 2309-1091—

ROLL NUMBER				





MATHEMATICS SSC-I

(Science Group)

20

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Answer any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

Q. 2 Attempt any NINE parts. All parts carry equal marks. SECTION - B (Marks 36)

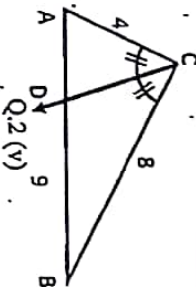
(9 x 4 = 36)

- (i) If $A = \begin{bmatrix} 5 & 1 \\ 2 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 0 & 1 \\ 4 & 0 \end{bmatrix}$ then:
- a) Find $(AB)^T$ b) Find $B^T A^T$ c) Is $(AB)^T$ equal to $B^T A^T$?
- (ii) If $z = \frac{1}{1-i}$ then:
- a) Write z in $a+bi$ form. b) Calculate \bar{z} c) Show that $(z-\bar{z})^2$ is real.



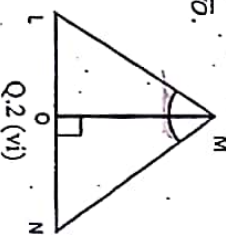
(iii) Simplify $\left[\frac{(125)^{\frac{1}{3}} \times (25)^{\frac{1}{5}} + (16)^{\frac{1}{2}} \times (64)^{\frac{1}{3}} + \frac{1}{(49)^{\frac{1}{7}}}}{3} \right]^{\frac{1}{3}}$

(iv) Solve with the help of logarithm $\frac{0.987 \times (16.42)^2}{(4.567)^3}$



Q.2 (v)

- (v) Find the length of side \overline{AD} in the given figure. If $m\overline{AC} = 4\text{cm}$, $m\overline{BC} = 8\text{cm}$ and $m\overline{DB} = 9\text{cm}$.
- (vi) In $\triangle LMN$, $\overline{MO} \perp \overline{LN}$ and $\overline{LM} \cong \overline{LN}$. Prove that $\overline{LO} \cong \overline{ON}$ and $\angle LMO \cong \angle LNO$.
- (vii) If $x = 3 - \sqrt{8}$ then find
- a) $\frac{1}{x}$ b) $x - \frac{1}{x}$ c) $x^2 + \frac{1}{x^2}$
- (viii) Factorize $(x-5)(x-7)(x+6)(x+4) - 504$
- (ix) Use factor theorem to factorize $x^3 + 2x^2 - 5x - 6$
- (x) Find the HCF of the following polynomials by division method $a^4 + 3a^2 + 2a^2 + 3a + 1$, $a^4 + 4a^2 + 4a + 1$
- (xi) Simplify $\frac{6x^2 + 9x}{x^2 + 8x + 15} + \frac{4x + 6}{x^2 - 9}$
- (xii) Prove that any point on the bisector of angle is equidistant from its arms.
- (xiii) If $2x - y - 3 = 0$, then: Make a table of any four values satisfying given equation.
- (xiv) Solve and check for extraneous solution if any $\sqrt{2x+5} = \sqrt{4x-11}$



Q.2 (vi)

SECTION - C (Marks 24)

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

(3 x 8 = 24)

- Q. 3 The length of a park is 3m more than its width and perimeter of the park is 180m. Find the dimensions of the park by matrices.
- Q. 4 Prove that if the square of one side of a triangle is equal to the sum of squares of other two sides, then the triangle is right angled triangle.
- Q. 5 Prove that the line segment joining the mid points of two sides of a triangle, is parallel to the third side and is equal to one half of its length.
- Q. 6 A quadrilateral has points $A(9,3), B(-7,7), C(-3,-7), D(5,-5)$ then:
- a) Find the mid points of sides
- b) Verify that figure so formed by joining mid points is a parallelogram
- Q. 7 Given that $m\overline{AB} = 8\text{cm}$, $m\overline{BC} = 6.4\text{cm}$, $m\angle B = 90^\circ$ then:
- (a) Construct the $\triangle ABC$ b) Draw the angle bisectors of three angles
- (c) Verify their concurrency. Also write steps of construction.





COMPUTER SCIENCE

SSC-I

SECTION - A (Marks 12)

Time allowed: 15 Minutes

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.

مطلوبہ وقت: 15 منٹ
 حصہ - آ لازمی ہے۔ اس حصہ کے سب سے سوالوں پر اس صفحہ پر جواب دینا ہے اور اسے سینٹر سپرنٹنڈنٹ کو ہاتھ باندھ کر دینا ہے۔
 ڈیٹنگ/اوریئرنگ کی اجازت نہیں ہے۔
 لیڈ پنسل استعمال نہ کریں۔

Version No.	1	1	1	1	1
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. _____

Fill the relevant bubble against each question according to curriculum: Invigilator Sign: _____

Candidate Sign: _____

Question	A	B	C	D	A	B	C	D
1. In which generation of computers were the microprocessors used for the first time? پہلی نسل کے کمپیوٹرز میں کون سے نسل کے میکرو پروسیسرز استعمال کیے گئے تھے؟	First پہلی	Second دوسری	Third تیسری	Fourth چوتھی	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Which of the following option in word is used to "End" the page and shift the control to the new (next) page? کون سے الفاظ کے استعمال سے نیا صفحہ شروع کیا جائے گا اور کنٹرول نئے صفحے پر منتقل کیا جائے گا؟	Section Break بخش کا وقفہ	Paragraph پیراگراف	Page Break صفحہ کا وقفہ	Document Document Break دستاویز کا وقفہ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Amplification is the solution of: _____ تعمیر کا حل _____ ہے۔	Cross talk تعمیر کا وقفہ	Distortion تعمیر کا وقفہ	Attenuation تعمیر کا وقفہ	Timeliness تعمیر کا وقفہ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Which of the following is full duplex transmission mode? کون سے نسل کے مکالمے مکالمے کے دونوں طرف سے ہوتے ہیں؟	Conversation مکالمہ	Money پیسہ	TV ٹیلی ویژن	Sending data Data to printer دستاویز کو پرنٹر بھیجنا	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Which of the following operating system is used to control the traffic signals? کون سے نسل کے آپریٹنگ سسٹمز کنٹرول کرنے کے لیے استعمال کیے جاتے ہیں؟	Time sharing وقت بانٹ	Real Time حقیقی وقت	Multi-User کثیر نسل	Single User ایک نسل	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Which program is used to make Backup of data? کون سے پروگرام کو ڈیٹا کی بک اپ بنانے کے لیے استعمال کیا جاتا ہے؟	Device Driver ڈیوائس ڈرائیور	Language Language Processor زبان کی پروسیسر	Utility Program فائدگی کے پروگرام	Operating system آپریٹنگ سسٹم	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Key logger software is an example of: _____ کی لوجر سافٹ ویئر کا ایک مثال ہے: _____	Virus وائرس	Worm ورم	Hacker ہیکر	Cracker کراکر	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Which of the following networks is MOST suitable for small number of users? کون سے نسل کے نیٹ ورکس چھوٹے نمبر کے صارفین کے لیے سب سے زیادہ موزوں ہے؟	Client server network کلینٹ سرور نیٹ ورک	Peer to peer network پیر ٹو پیر نیٹ ورک	Point-to-point network پوائنٹ ٹو پوائنٹ نیٹ ورک	Metropolitan Area network میٹروپولیٹن ایریا نیٹ ورک	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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ROLL NUMBER
23
2012



22

Question	سوال	A B C D				A B C D					
		A	B	C	D	A	B	C	D		
9. Which command is used to limit the entities in a call? کال کی entity کو محدود کرنے کے لئے کون سا command ہے؟	Data Validation ڈیٹا کی تصدیق	Conditional Formatting شرطی صورت میں	Functions فونکشن	Formula فارمولا	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Which Interface is based on textual input? کون سا interface ٹیکسٹ کی input پر مبنی ہے؟	GUI	CLI	Menu Driven	Window سلائیڈ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Which type of network is used in Cable TV? کابلی ٹیلی ویژن میں کون سا network کی نوعیت استعمال کی جاتی ہے؟	Local Area Network لوکل ایریا نیٹ ورک	Metropolitan Area Network میٹروپولیٹن ایریا نیٹ ورک	Wide Area Network واید ایریا نیٹ ورک	Personal Area Network پرسنل ایریا نیٹ ورک	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Wireless mouse is connected with Computer by _____ unguided technology. وائرس لیس مائوس کمپیوٹر سے کون سا unguided technology سے مربوط ہے؟	Bluetooth	Radio wave ریڈیو ویو	Infra-red انفر ریڈ	Microwave میکرو ویو	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

—ISA-II 2311-1111—

ROLL NUMBER				



provided answer book. Write your answers neatly and legibly.

SECTION - B (Marks 27)

(9 x 3 = 27)

Q. 2 Attempt any NINE parts. All parts carry equal marks.

- (i) List the names of any three "volatile memories".
- (ii) What is the word processor? Why word has replaced type writer? Give two reasons.
- (iii) Compare synchronous and asynchronous transmissions on basis of working, time interval and examples.
- (iv) Write the effects of following malware: Worm, Virus, Spyware.
- (v) Write the uses of following icons: Recycle Bin, Computer Icon, Folder Icon.
- (vi) What is meant by 'Data rate' and 'Baud rate'? Also write their relationship.
- (vii) Why are computer networks needed? Give three reasons.
- (viii) Differentiate between software piracy and Information privacy.
- (ix) Write three uses of E-commerce in daily life.
- (x) Enlist any three authentication methods.
- (xi) What are the disadvantages of using satellite as transmission medium? (any three)
- (xii) Write any three uses of vital sign monitoring computer in hospital?
- (xiii) How is fiber optics more reliable than other guided media? Give three reasons.



Q.No.2 (v)

SECTION - C (Marks 16)

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

(2 x 8 = 16)

- Q. 3 a.** Write short notes on any two GUI operating systems.
- b.** Write four advantages of GUI operating system.
- Q. 4 a.** How does modem work? Explain. Also draw diagram.
- b.** Compare analog and digital signals on basis of:
 - (i) Signal type
 - (ii) Diagram
 - (iii) Examples
 - (iv) Speed
- Q. 5 a.** Write detailed note on LAN.
- b.** Write any four characteristics of WAN.

— ISA-II 2311 —



Version No.	1	0	1	1
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ROLL NUMBER				



9th Class
میدل سیکولر

1

Answer Sheet No.

2022

English

Sign. of Candidate



Sign. of Invigilator

- | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> 5 | <input type="radio"/> 6 | <input type="radio"/> 7 | <input type="radio"/> 8 | <input type="radio"/> 9 | <input type="radio"/> 10 |
| <input type="radio"/> 11 | <input type="radio"/> 12 | <input type="radio"/> 13 | <input type="radio"/> 14 | <input type="radio"/> 15 | <input type="radio"/> 16 | <input type="radio"/> 17 | <input type="radio"/> 18 | <input type="radio"/> 19 | <input type="radio"/> 20 |

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

ENGLISH
COMPULSORY SSC-I
SECTION - A (Marks 15)
Time allowed: 20 Minutes

مذکورہ سیکشن میں تمام حصے کو پڑھ کر جواب دینا ضروری ہے۔ اس سیکشن میں ہر حصے کا جواب لکھنا ہے۔ اس سیکشن میں ڈی لیننگ/اوور رائٹنگ کی اجازت نہیں ہے۔ لیڈ پینسل استعمال نہ کریں۔

Fill the relevant bubble against each question:

- The train had already left. Which tense is used in the sentence?

<input type="radio"/> Present perfect	<input type="radio"/> Present perfect continuous	<input type="radio"/> Present continuous	<input type="radio"/> Past continuous
---------------------------------------	--	--	---------------------------------------
- Napoleon's army was finally defeated at Waterloo. The underlined word in an example of:

<input type="radio"/> Common noun	<input type="radio"/> Abstract noun	<input type="radio"/> Collective noun	<input type="radio"/> Proper noun
-----------------------------------	-------------------------------------	---------------------------------------	-----------------------------------
- I am looking for someone _____ can watch my dog while I am on vacations. Choose the best answer to complete the sentence.

<input type="radio"/> Who	<input type="radio"/> That	<input type="radio"/> Which	<input type="radio"/> What
---------------------------	----------------------------	-----------------------------	----------------------------
- Choose the best answer. I am tired. I _____ for three hours.

<input type="radio"/> Had studied	<input type="radio"/> Have been studying	<input type="radio"/> Will be studying	<input type="radio"/> Shall study
-----------------------------------	--	--	-----------------------------------
- His body was shaking with _____ Write the antonym of the underlined word:

<input type="radio"/> Rage	<input type="radio"/> Earthquake	<input type="radio"/> Calmness	<input type="radio"/> Fear
----------------------------	----------------------------------	--------------------------------	----------------------------
- The cost of living has increased so much that he finds it difficult to make both ends meet. Meaning of the underlined idiom is:

<input type="radio"/> To live within income	<input type="radio"/> Buy food	<input type="radio"/> Spend money	<input type="radio"/> Live a life of luxury
---	--------------------------------	-----------------------------------	---
- He is a chicken and cannot face a difficulty. In this sentence 'chicken' refers to _____ person.

<input type="radio"/> An innocent	<input type="radio"/> A cowardly	<input type="radio"/> A harmless	<input type="radio"/> A foolish
-----------------------------------	----------------------------------	----------------------------------	---------------------------------
- Which one of the modal verbs used in the given sentences shows the function of 'shall'?

<input type="radio"/> My sister can speak three languages	<input type="radio"/> She can play the flute and the guitar	<input type="radio"/> You must wash your hands before cooking	<input type="radio"/> My baby brother should be asleep by now
---	---	---	---
- He is good _____ Mathematics. Fill in the blank with suitable preposition.

<input type="radio"/> In	<input type="radio"/> At	<input type="radio"/> With	<input type="radio"/> On
--------------------------	--------------------------	----------------------------	--------------------------

9th Class Federal Board 2022

NOTE: Sections B and C comprise pages 1-2. Answer all the questions from Sections 'B' and 'C' on the separately provided answer book. Use supplementary answer sheet 'A', sheet-B if required. Write your answers neatly and legibly.

Total Marks Sections B and C: 50
Time allowed: 2:40 Hours

ENGLISH COMPULSORY SSC-I

13

2

SECTION - B (Marks 40)

Q. 2 Read the following passage carefully and answer any FIVE questions including Question No. (i) appended to it.
Note: Question (i) about summary writing is compulsory carrying 05 marks while rest of the questions carry 03 marks each.

Media helps people to share knowledge of the world, their feelings and opinions expressed through it. Media attracts the attention of a very large audience. It is through media that the world has become a global village. Media plays a very constructive role for the society. It raises awareness about many social issues like corruption, terrorism, drug addiction and violation of human rights. Media has become a mouthpiece of the government. It would not be wrong to say that media is the most visible institution that keeps an eye on every segment of the society. Through debates, reports and talk shows it makes everyone accountable and answerable. The is why media has become an integral part of our lives. Media can play a positive role and has a corrective impact if it works honestly.

Q. 3 a. Paraphrase any ONE of the following stanzas:
(i) I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.
OR
Whose woods are these I think I know
His house is in the village though;
He will not see me stopping here
To watch his woods fill up with snow.

b. Read the following stanza carefully and answer the questions given at the end:
(i) For oft, when on my couch I lie
In vagrant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.
QUESTIONS:
(i) What effect does the memory of golden daffodils has on the mood of the poet?
(ii) Which poetic device has been used in the last line of the stanza?
(iii) Write down the rhyme scheme of the stanza.
(iv) Write the meanings of the underlined words.
(v) What do you understand by the term 'inward eye'?
OR
(i) My little horse must think it queer,
To stop without a farmhouse near
Between the woods and frozen lake
The darkest evening of the year
Why does the little horse think it improper to stop in the woods?
(ii) Describe the imagery used in the stanza.
(iii) Write the rhyme scheme of the stanza.
(iv) Write the meaning of the underlined word.
(v) Why is the evening dark then the usual?

Q. 3 b. Paraphrase any ONE of the following stanzas:
(i) For oft, when on my couch I lie
In vagrant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.
QUESTIONS:
(i) What effect does the memory of golden daffodils has on the mood of the poet?
(ii) Which poetic device has been used in the last line of the stanza?
(iii) Write down the rhyme scheme of the stanza.
(iv) Write the meanings of the underlined words.
(v) What do you understand by the term 'inward eye'?
OR
(i) My little horse must think it queer,
To stop without a farmhouse near
Between the woods and frozen lake
The darkest evening of the year
Why does the little horse think it improper to stop in the woods?
(ii) Describe the imagery used in the stanza.
(iii) Write the rhyme scheme of the stanza.
(iv) Write the meaning of the underlined word.
(v) Why is the evening dark then the usual?

Q. 3 c. Paraphrase any ONE of the following stanzas:
(i) For oft, when on my couch I lie
In vagrant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.
QUESTIONS:
(i) What effect does the memory of golden daffodils has on the mood of the poet?
(ii) Which poetic device has been used in the last line of the stanza?
(iii) Write down the rhyme scheme of the stanza.
(iv) Write the meanings of the underlined words.
(v) What do you understand by the term 'inward eye'?
OR
(i) My little horse must think it queer,
To stop without a farmhouse near
Between the woods and frozen lake
The darkest evening of the year
Why does the little horse think it improper to stop in the woods?
(ii) Describe the imagery used in the stanza.
(iii) Write the rhyme scheme of the stanza.
(iv) Write the meaning of the underlined word.
(v) Why is the evening dark then the usual?

Q. 3 d. Paraphrase any ONE of the following stanzas:
(i) For oft, when on my couch I lie
In vagrant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.
QUESTIONS:
(i) What effect does the memory of golden daffodils has on the mood of the poet?
(ii) Which poetic device has been used in the last line of the stanza?
(iii) Write down the rhyme scheme of the stanza.
(iv) Write the meanings of the underlined words.
(v) What do you understand by the term 'inward eye'?
OR
(i) My little horse must think it queer,
To stop without a farmhouse near
Between the woods and frozen lake
The darkest evening of the year
Why does the little horse think it improper to stop in the woods?
(ii) Describe the imagery used in the stanza.
(iii) Write the rhyme scheme of the stanza.
(iv) Write the meaning of the underlined word.
(v) Why is the evening dark then the usual?

Page 1 of 2 (English)



10. We shall meet _____ the airport. Use the A in On into

11. Please take the _____ of the two Shorter Short More short

12. Her pure was _____ by me. Choose the Found Fnd Founding

13. A rolling stone gathers no moss. The Part participle Part participle

14. Hockey is the national game of Pakistan. Compound Simple sentence sentence

15. Each hand has its fingers. The underlined Number Quality Time

ROLL NUMBER



—15A4 2201-1011—

2

Q. 4 a. Fill in the blanks to complete a crime story. Use the passive voice form of the verbs given in brackets. (08)

Police were _____ (call) to the National Bank yesterday. The bank was _____ (rob). One billion rupees were _____ (steal). No customer was _____ (hurt). But one robber was _____ (shot) by the police.

b. Use the Verbs given in the brackets as present and past participles. (any five) (08)

- (i) We met a girl _____ a basket of flowers. (carry)
- (ii) Books _____ in the childhood seem like old friends. (read)
- (iii) I heard my mother _____ on the phone. (talk)
- (iv) We stood _____ for the taxi. (wait)
- (v) Having _____ my passport, I applied for a new one. (lose)
- (vi) She hurt her leg while _____ the rope. (skip)
- (vii) The letter was badly _____. (write)

c. Punctuate the following para/line(s): (03)

I know every kid in practically the whole school he says some of those guys in schools on TV don't even know the people in their own class

SECTION - C (Marks 20)

Q. 5 Write an email to an American friend telling him/her about attractive tourist destinations in Pakistan briefly. (08)

OR

Write an application to the Principal requesting him/her to hold a 'funfair' in your school.

Q. 6 Write a paragraph of about 80 to 100 words on any ONE of the following: (06)

Kindness
OR
Examinations

Q. 7 Translate the following passage into Urdu: (06)

Noise pollution causes not only environmental damage but it also has negative impact on human health. It can cause aggression, hypertension, high stress levels, hearing loss, restlessness, depression and insomnia. Insomnia can further lead to anxiety, bad temper and emotional stress. In addition, noise pollution can seriously affect the learners, it gives them unnecessary mental and physical tension.

OR

Write a dialogue between discussing the importance of tree-plantation.

—ISA-1 2201—



Version No.
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ROLL NUMBER

PHOTO STATE
PHASE II
WAFJ ROAD QUETTA

Answer Sheet No. آر ۱۰

Sign. of Candidate 2022

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.

اُردو ایس ایم میں - ا
حصہ اول (کل نمبر 15)
وقت: 20 منٹ

حرف اولیہ کے حصے میں اس پر جواب دینا ہے اور اسے اس کے ساتھ ساتھ دیا جائے گا۔
اس حصے میں کوئی حذف/تعمیر نہیں کی جائے گی۔
قلم سیاہی سے لکھنا ہے۔

Fill the relevant bubble against each question:

1. وہاں کس طرح کی کھوپڑیاں تھیں؟	<input type="radio"/> بریلی	<input type="radio"/> پلاسٹک	<input type="radio"/> پلاسٹک	<input type="radio"/> پلاسٹک
2. راکٹ کی رفتار کتنی تھی؟	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
3. راکٹ کی رفتار کتنی تھی؟	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
4. "ہم اپنی زندگی بھر کی ساری باتیں تمہاری یادداشت میں لکھ رہے ہیں۔"	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
5. "ہم اپنی زندگی بھر کی ساری باتیں تمہاری یادداشت میں لکھ رہے ہیں۔"	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
6. فریڈرک نے کتنی کتابیں لکھی ہیں؟	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
7. "میرے پاس کتنی کتابیں ہیں؟"	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
8. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
9. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
10. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
11. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
12. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
13. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
14. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7
15. "پلاسٹک کی بات ہے کہ..."	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7

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Page 1 of 1



نوٹ: صدر نام اور نمبر 1-2 صفحات پر منظر ہیں۔ ان سوالات کے جوابات منظر سے منگائی گئی ہوں یا پھر پریمی۔ دیگر شیٹ (Sheet-B) طلب کرنے پر منگائی جائے گی۔ آپ کے جوابات صاف اور واضح ہونے چاہئیں۔

حصہ دوم (کل نمبر 34)

(8x2 = 16)

سوال نمبر: الف۔ حصہ

روحانی تعلیم و تربیت کو غور سے پڑھیں اور دیکھ لیں کہ اس سے آپ کو کیا باتیں آتی ہیں اور ان میں سے کون سی باتیں آپ کو زیادہ پسند آتی ہیں۔ ان باتوں کو لکھ کر لیا کریں۔

سوالات:

- (i) اس عبارت کا مرکزی خیال لکھیں۔
- (ii) سولہ صاحب نے طالب علم کو کیا بات بتائی؟
- (iii) سبق پڑھ کر اپنے ہاتھ پر مطالب علم کے ہم جنمات کے کیا جواب دیا؟
- (iv) ہم جنمات کے گھر جانے پر طالب علم نے کیا حاشیہ لکھا؟
- (v) حضرت نبی کو طالب علم کی کون سی بات پسند آئی گی؟
- (vi) حضرت نبی نے طالب علم کو کیا دعا دی؟
- (vii) طالب علم کی شرمندگی کی وجہ کیا تھی؟
- (viii) حضرت نبی نے طالب علم کو کیا دعا دی؟
- (ix) اس عبارت کو پڑھ کر آپ کے خیال میں ماہر ماہر لوگوں کے ساتھ برتاؤ کیا ہونا چاہیے؟

ب۔ حصہ

نوٹ: ذیل افسانہ کو غور سے پڑھیں اور دیکھ لیں کہ اس سے آپ کو کیا باتیں آتی ہیں اور ان میں سے کون سی باتیں آپ کو زیادہ پسند آتی ہیں۔ ان باتوں کو لکھ کر لیا کریں۔

(5x2 = 10)

- (i) پندرہ سے تیرے کیوں کر، جانے لکل کے کوئی پتلا ہوا ہے، ہر سو، عالم میں جال تیرا
- (ii) جانا ہوں ڈوب حالت ، نہ
- (iii) کیا میرا ان کو ہوتی بلاو راست
- (iv) نہ کہو سکتوں، نہ ہے تیرا دارا
- (v) چال پر کب آپ کی کافر چلے
- (vi) بنے تاپوں کے نشان کیسے کیسے
- (vii) بلاو میت میں ہے کون کسی کا رہتی
- (viii) ساتھ سرے نہ گئی، ایک مری آرزو

سوالات:

- (i) کافر کو راست کیوں میری آئی؟
- (ii) اللہ کے پھول سے لگتا کیوں مانگتا ہے؟
- (iii) کون کون سے ناموں کے نشان منٹ کیے ہیں؟
- (iv) شاعر کے ساتھ اس کی آرزو وہ جاننے کی وجہ کیا ہے؟
- (v) شاعر کی طبیعت کون چیزوں کی طرف متاثر نہیں ہوتی؟
- (vi) اللہ کے پھول سے کیا مراد ہے؟
- (vii) حصہ تیسواں
- (viii) مندرجہ ذیل میں سے چار سوالات کے جوابات تحریر کریں:
- (i) غزل میں مطلع سے کیا مراد ہے؟
- (ii) مہرین اور شہر میں کیا فرق ہے؟
- (iii) کتاب کی تقریب اور مجال لکھیں۔
- (iv) بلاو اسیت کے ارتقا لکھیں۔
- (v) جو کسی قسم کی لگم ہوتی ہے، اسے وضاحت کریں۔

(4x2 = 8)



سوال نمبر 7: مندرجہ ذیل میں سے کسی ایک عبارت کی تشریح کریں۔
 (5) ایک ذرات کی رفتار سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے طرز میں ذرات سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔

بہ: اتفاقاً ایک ذرے کو یہ ہے کہ اس میں لہر کی رفتار سے زیادہ رفتار دے گا۔ اس کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔

سوال نمبر 8: مندرجہ ذیل میں سے کسی ایک نظریہ جڑ کی آسان مثالیں تشریح کریں۔
 (5) ایک ذرات کی رفتار سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے طرز میں ذرات سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔

سوال نمبر 9: مندرجہ ذیل میں سے کسی ایک نظریہ جڑ کی آسان مثالیں تشریح کریں۔
 (5) ایک ذرات کی رفتار سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے طرز میں ذرات سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔

سوال نمبر 10: مندرجہ ذیل میں سے کسی ایک نظریہ جڑ کی آسان مثالیں تشریح کریں۔
 (6) ایک ذرات کی رفتار سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے طرز میں ذرات سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔

سوال نمبر 11: مندرجہ ذیل میں سے کسی ایک نظریہ جڑ کی آسان مثالیں تشریح کریں۔
 (5) ایک ذرات کی رفتار سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے طرز میں ذرات سے متعلقہ ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 ذرات کے ساتھ ساتھ ہے۔ فرس ڈیٹا میں دیکھا گیا ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 تیسری صورت ہے۔ جب یہ کسی ذرے سے ٹکرائے گا تو اسے لہر کی رفتار سے زیادہ رفتار دے گا۔
 یہی بات دیکھا گیا ہے۔



— ISA4 2203 —

Version No.			
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100



Answer Sheet No. Physics

Sign. of Candidate 2022

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 SSC-I
SECTION - A (Marks 12)
Time allowed: 15 Minutes

یہ سیکشن لازماً پڑھنا ہے۔ اس سیکشن کے تمام حصے اس صفحہ پر جواب دیے جائیں گے۔

Fill the relevant bubble against each question:

یہ سیکشن لازماً پڑھنا ہے۔ اس سیکشن کے تمام حصے اس صفحہ پر جواب دیے جائیں گے۔

1. Which of the following is True?
 درست جواب کی گول چکیں۔
 Centi = 10⁻² Tera = 10¹² Pico = 10⁻¹² Kilo = 10³
 سنی = 10⁻² ٹیرا = 10¹² پیکو = 10⁻¹² کیلو = 10³

2. The moving wings of a turning fan is an example of:
 گھومتے ہوئے پن کے بالوں کا نمونہ ہے۔
 Circular motion Random motion Vibratory motion Rotatory motion
 گول حرکت بے ترتیب حرکت ارتعاشی حرکت گولاری حرکت

A cyclist starting from rest moves with an acceleration of 2m/s². It will cover _____ distance in 10 seconds.
 ایک سائیکل سوار روک کر 2m/s² کی تیز رفتاری سے 10 سیکنڈوں میں _____ مسافت طے کرتا ہے۔
 200m 100m 20m 10m

The unit of momentum according to system international is:
 منسلک بین الاقوامی نظام کے مطابق حرکت کی اکائی ہے۔
 Nm Nm⁻¹ Hz Ns⁻¹

The centripetal acceleration for an object of mass 1kg moving with speed of 6ms⁻¹ in a circle of radius 3m is:
 ایک 1kg کی کمیت رکھنے والے جسم کی رفتار 6ms⁻¹ پر ایک گول حرکت میں اس کی مرکز کی طرف کی تیز رفتاری کی مقدار ہے۔
 18ms⁻² 12ms⁻² 15ms⁻² 9ms⁻²

A force of 20N makes an angle of 45° with x-axis. Its horizontal and vertical components are:
 20N کی قوت ایک 45° کے زاویے پر x-محور سے ملتی ہے۔ اس کی افقی اور عمودی اجزائیں ہیں۔
 0.86N, 14.14N 0.5N, 14.14N 0.5N, 0.86N 14.14N, 14.14N

7. The position of centre of gravity of a triangular plate is at: A point outside triangle Point of intersection of medians Point of intersection of diagonals On highest vertex

8. At a distance of two Earth's radius above the Earth's surface, the value of "g" becomes _____ of its value on Earth. (where $g_E = \frac{GM_E}{R_E^2}$) Four times One-fourth Nine times One-ninth

9. $1hp =$ _____ 476 Watt 576 Watt 676 Watt 746 Watt

10. The extension per unit length is termed as: Stress Strain Elasticity Plasticity

11. The relation between co-efficient of linear expansion " α " and co-efficient of volumetric expansion " β " is: $\alpha = 3\beta$ $\beta = 3\alpha$ $\alpha = \beta$ $\beta = \frac{1}{3}\alpha$

12. In solids, transfer of heat takes place by: Conduction Convection Radiation Absorption

—ISA-I 2207-6071 (MA)—

- $S = Vt + \frac{1}{2}at^2$
- $a_e = \frac{v^2}{r}$
- $g_E = \frac{GM_E}{R_E^2}$
- $F_x = F \cos \theta$
- $F_y = F \sin \theta$

ROLL NUMBER

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Time allowed: 2:45 Hours

10

NOTE: Answer any eleven 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.

Total Marks Sections B and C: 53

SECTION - B (Marks 33)

- Q.2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)
- Enlist any three base and derived quantities with their respective units.
 - Calculate the number of seconds in "one week". Express the number in standard form.
 - Sketch the distance time graph for the given states.
 - When object moves with constant speed
 - When the object is at rest
 - A cricket ball is hit vertically upwards and returns to ground 10 second later. Calculate maximum height reached by the ball. ($g = 10 \text{ m/s}^2$)
 - Mass and weight are two different physical quantities. Make a comparison between them with three points to support.
 - A 200gm bullet is fired from a 15kg gun with a speed of 100 m/s . What is speed of recoil of this gun?
 - Why it is better to use a long spanner rather than a short one to loosen a rusty nut?
 - A picture frame is hanging by two vertical strings. The tensions in the string are 5.7 N and 3.5N. Find the weight of picture frame.
 - A meteoroid is at $4.6 \times 10^6 \text{ m}$ from the earth. What is the value of free fall acceleration "g" at this point due to earth?
 - What is biomass? How it can be used as an energy source? What is its harmful effect?
 - How do "thermals" help birds to fly for hours without flapping their wings?
 - At what temperature the readings on Fahrenheit and Celsius scales are equal?
 - Give reasons:
 - Why wet clothes dry up more quickly in summer than in winter?
 - Why water evaporates faster when spread over larger area?
 - How can submarines travel over as well as under the water?
 - Define thermal conductivity of a solid material. What is its SI unit?



SECTION - C (Marks 20)

- Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)
- Q.3 a. Derive an equation of motion which is independent of time.
 b. Two bodies of masses 8kg and 5kg are attached to the ends of string suspended from a frictionless pulley. Find acceleration of bodies and the tension of the string.
- Q.4 a. What is work? Write its mathematical form along with its unit. Explain the cases when:
 - Work done is maximum
 - Work done is zero
 b. A satellite is revolving around the earth at an altitude of 35000km. Calculate its orbital speed.
- Q.5 a. State "Pascal's Law". Explain working of hydraulic press and braking system in vehicle as an application of Pascal's Law.
 b. A container has 2.5 litres of water at 20°C . How much heat is required to boil the water?

—ISA-I 2207 (MA)—

- $S = Vt + \frac{1}{2}gt^2$
- $g_e = \frac{gR_e^2}{(R_e + h)^2}$
- $a = \left(\frac{m_2 - m_1}{m_1 + m_2} \right) g$
- $m_1u_1 + m_2u_2 = m_1v_1 + m_2v_2$
- $\Sigma F = 0$
- $\Sigma \tau = 0$
- $T = \left(\frac{2m_1m_2}{m_1 + m_2} \right) g$
- $T_F = 1.8T_C + 32$
- $Q = cm\Delta T$
- $v = \sqrt{\frac{GM_E}{(R_E + h)}}$

Version No.
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- (1) (1) (1) ●
- (2) (2) (2) (2)
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- (4) (4) (4) (4)
- (5) (5) (5) (5)
- (6) (6) (6) (6)
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Answer Sheet No. **CHEMISTRY**

Sign. of Candidate **2022**



Sign. of Invigilator

CHEMISTRY SSC-I
SECTION - A (Marks 12)
 Time allowed: 20 Minutes

تمامی سوالات کو حل کرنے کے لئے 20 منٹ کا وقت دیا گیا ہے۔
 اس وقت میں تمام سوالات کو حل کرنے کے لئے مناسب طریقہ اختیار کرنا ضروری ہے۔

ہر سوال کے لئے ایک تہہ دیا گیا ہے۔

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

Fill the relevant bubble against each question:

- Which products are formed by the electrolysis of molten NaCl?
 $Na_{(l)}, Cl_{2(g)}$ $Na_{(l)}, H_{2(g)}$ $Na_{(l)}, O_{2(g)}$ $Na_{(l)}, H_{2(g)}, O_{2(g)}$
- Mass of 2 moles of hydrogen gas is:
 8.064g 4.032g 1.008g 2.106g
(M atomic mass = 1.008 a.m.u.)
- $^{20}_{10}Ne$ has electronic configuration:
 $1s^2, 2s^2, 3s^2, 3p^4$ $1s^2, 2s^2, 2p^6, 3s^2, 3p^4$ $1s^2, 2s^2, 2p^6, 3s^2$ $1s^2, 2s^2, 2p^6, 3s^2, 2p^4$
Ne کی الیکٹرانک ساختہ بتائیے۔
- Predict the location of $^{27}_{13}Al$ in Periodic table:
 2nd Period, 2nd Group 3rd Period, 3rd Group 3rd Period, 3rd Group
بوریک ٹیبل میں $^{27}_{13}Al$ کے مقام کا بتائیے۔
- Identify the ionic compound from the given options:
 MgO O₂ H₂O CO₂
معدنی مرکب سے ایک صحیح جواب بتائیے۔
- Conversion of a liquid into a gas at all temperatures is called:
 Freezing Melting Evaporation Condensation
سیال حالت میں کسی مادے کو ہر درجہ حرارت پر گیس میں تبدیل کرنا کہلاتا ہے۔
- The elements that can exist in two or more different arrangements of atoms are called:
 Isotopes Allotropes Amorphous Crystalline
ایک ہی مادے میں ایٹموں کا دو یا دو سے زائد مختلف طریقوں میں ہونا کہلاتا ہے۔



Time allowed: 2:40 Hours

13

NOTE: Answer any eleven 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.

Total Marks Sections B and C: 53

SECTION - B (Marks 33)

- Q. 2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)
- Differentiate between molecular ion and free radical with examples.
 - What is meant by: a. Atomic mass b. Atomic number c. Atomic mass unit
 - Draw Bohr's atomic model for ${}^{19}\text{F}$ and ${}^{23}\text{Na}$, indicating location of electrons, protons and neutrons.
 - The atomic mass of copper metal is 63.5 amu. Calculate the mass of 3.5 moles of copper sulphate. (CuSO_4)
 - Write the electronic configuration of ${}^{12}\text{Mg}$, ${}^{7}\text{N}$ and ${}^{11}\text{Na}$.
 - What is meant by corrosion? Write the chemical equation for rusting of iron.
 - State the substances which are being oxidized or Reduced in the given chemical reactions:

$$\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$$

$$\text{Mg} + \text{H}_2\text{O} \rightarrow \text{MgO} + \text{H}_2$$

$$\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$$
 - How can the location of an element 'X' be identified on periodic table by its electronic configuration?
 - Platinum is an inert metal. Discuss its commercial importance.
 - Explain the composition of 'Aqua Regia'. How it is used to dissolve the noble metals.
 - Show the formation of cations from the following metals, using electron dot cross structures.
 - Be (atomic number=4)
 - Al (atomic number=13)
 - What are allotropes? Explain the allotropes of phosphorus.
 - MgSO_4 is used in medicines. How can 0.5 M 500 cm^3 solution of MgSO_4 be prepared from a 2.5 M stock solution of MgSO_4 ?
 - State Octet and Duplet rules with one example each.
 - Dry cells are used to power wall clock. Describe how a dry cell produces electrical energy. Explain with the reactions at anode and cathode.



SECTION - C (Marks 20)

- Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)
- Q. 3 a. State Charles's Law. Ammonia gas is used as a refrigerant. Calculate the initial volume of NH_3 gas at 0°C that is changed to 73 cm^3 by cooling it to -14°C at constant pressure. (05)
- b. What are isotopes? State the importance and uses of isotopes in daily life. (1+4=5)
- Q. 4 a. Explain electron affinity and electronegativity along with their trends in periodic table. (06)
- b. How covalent bond is formed? Describe single, double and triple covalent bond formation between two non-metallic atoms with the help of structures. (1+3=4)
- Q. 5 a. What is Molarity? If 50g of a chemical, having molecular formula CON_2H_4 , is dissolved in 250 cm^3 of solution. Calculate the molarity of this solution. (1+4=5)
- b. Copper metal obtained from its ores is impure. Explain electrolytic refining of copper. Sketch the cell showing anode cathode and flow of electrons. (05)

— ISA-I 2208 —

SUPPLEMENTARY TABLE

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

- 12
8. Atmospheric pressure at Murree is less than 1 atm so, the boiling point of water at Murree will be:

 Less than 100°C
 100°C
 More than 100°C
 120°C
9. Keeping the pressure of gas constant, average kinetic energy increases by:

 Increasing temperature

 Decreasing pressure

 Decreasing temperature

 Increasing pressure
10. Mass of Copper Sulphate dissolved in 100 g of solution is called:

 Concentration

 Molarity

 Percentage

 Solubility
11. The oxidation state of in N in NH_3 is:

 +1

 -3

 -1

 +3
12. Identify the branch of chemistry which deals with study of glucose formation by plants:

 Inorganic chemistry

 Organic chemistry

 Biochemistry

 Analytical chemistry

— ISA-I 2208-1081 —

SUPPLEMENTARY TABLE

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

ROLL NUMBER



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Answer Sheet No. Biology

Sign. of Candidate 2022



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 SSC-I
SECTION - A (Marks 12)
Time allowed: 15 Minutes

تمام سوالوں پر اس کے جوابات دیے جائیں اور اسے اس کے ساتھ ساتھ ہاتھ نہ لگائیں۔
کریسٹل گرافکس کی خدمت میں ہیلپ لائن پر بلائی جاسکتی ہے۔

Fill the relevant bubble against each question:

ہر سوال کے سامنے دیے گئے درست جواب کو بھریں۔

- Being a biological research worker, you are studying "Brassica campestris", which branch of biology it will be?
 1. Zoology Botany Parasitology Palaeontology
 حیاتیات نباتات کھجور پالائینٹالوجی
- The tentative statement that may prove to be the answer of a scientific problem:
 2. Law Theory Deduction Hypothesis
 ایک فرضیہ قانون نظریہ استنتاج فرضیہ
- All of these are characteristics of algae except:
 3. Multi cellular sex organs Chlorophyll in chloroplast Cellulose in cell wall Unicellular, colonial or simple multicellular
 تمام ان کی خصوصیات ہیں سوائے: جنسی تولیدی اعضا کلوروفیل سیلولوز یونیکلر، کولونیل یا سادہ
- The network of channels that extends from plasma membrane to nuclear envelop is:
 4. Mitochondria Golgi Bodies Plastids Endo Plasmic Reticulum
 پلازما غش سے نکلنے والی اور نیوکلیئر غلاف تک پہنچنے والی چینلوں کا نیٹ ورک میتوکونڈریا گولجی پلاسٹڈ اینڈوپلازمک ریکٹیکولم
- When an animal cell is placed in hypotonic solution what would happen?
 5. Cell will become rigid Cell will become turgid Cell may rupture Cell may shrink
 جب ایک جانور کے خلیے کو ہائپوٹونک سولوشن میں رکھا جائے تو کیا ہوگا؟ خلیہ سفت ہو جائے گا خلیہ سفت ہو جائے گا خلیہ پھٹ جائے گا خلیہ سکڑ جائے گا
- Identify the phase during which sister chromatids of each chromosome are separated?
 6. Prophase Metaphase Anaphase Telophase
 ہر کروموسوم کے سہولکریوں کو الگ کرنے کے دوران میں کونسی مرحلے میں ان کا علیحدہ ہونا ہوتا ہے؟ پروفیز میٹافیز اینافیز ٹیلوفیز
- Hydrolysis of starch occurs with the help of:
 7. Amylase Cellulose Lipase Laciase
 نشہ کی ہائیڈرولیسس اس کے ساتھ ہوتی ہے: امیلاز سیلولوز لیپاز لیکیز

If plants lose their Mesophyll Tissues, which gas will increase in the atmosphere?

1. O₂ CO₂ CO H₂

9. Choose the correct pair for deficiency of vitamin and disease

- Vitamin A - Ricket Vitamin D - Osteomalacia Vitamin C - Scurvy Vitamin D - Night blindness

10. Conversion of simple absorbed food into complex compounds that become part of body is called.

- Digestion Assimilation Ingestion Absorption

11. If blood is not supplied to the arms of a person, which arteries will be defective?

- Coronary Mesenteric Hepatic Sub clavian

12. All of these are characteristics of veins except:

- Thick muscular layer Have valves to prevent backward flow of blood Carry blood from body parts to heart Low blood pressure

—ISA-1 2210 - 5101 (SA)—



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Time allowed: 2:45 Hours

NOTE: Answer any eleven 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. Total Marks Sections B and C: 53

SECTION - B (Marks 33)

- Q. 2 Attempt any ELEVEN parts. All parts carry equal marks. (11 x 3 = 33)
- Differentiate between oxidation and reduction.
 - Protein and amino acids belong to which type of biomolecules? Compare this type of biomolecules and give two examples of each.
 - Describe blood disorder 'thalassemia'.
 - Differentiate between fats and oils. Also write sources of lipids.
 - Write causes and effects of deforestation.
 - Describe structure and function of Ribosome.
 - Describe structure of a nerve cell with the help of labelled diagram.
 - Describe three phases of inter phase.
 - What is apoptosis? Describe its process with two examples.
 - Describe the effect of pH on the rate of enzyme action with the help of suitable graph.
 - Emil Fischer proposed a model of enzyme action. Write name of the model and describe it with the help of diagram.
 - Describe observations collected during study of malaria.
 - Which environmental hazards are caused by the use of fertilizers?
 - Transpiration is a necessary evil. Discuss it.
 - Why blood group 'O' is called universal donor and blood group 'AB' universal recipient?



SECTION - C (Marks 20)

- Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)
- Q. 3 a. Heart acts as a double pump for circulation of blood, discuss it. Also draw flow chart for double pump of blood circulation.
- b. Which type of cellular organelles are responsible for photosynthesis. Describe it with the help of labelled diagram.
- Q. 4 a. Describe structure and function of stomach with the help of labelled diagram.
- b. Discuss characteristics of Kingdom fungi and Monera.
- Q. 5 a. Describe events of light reactions.
- b. Describe prophase-I with the help of diagram.

—ISA-1 2210 (SA)—



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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.

Fill the relevant bubble against each question:

If $A = \begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} a & b & c \\ 1 & 2 & 3 \end{bmatrix}$ then what is the order of matrix AB?

1. \sqrt{AB} $\sqrt{A} \sqrt{B} = \begin{bmatrix} a & b & c \\ 1 & 2 & 3 \end{bmatrix}$ or $A = \begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix}$

2. What equals -3^2 in the following options?

3. What is the value of $\log_3 3$ is?

4. $\frac{1}{2-\sqrt{3}}$ is equal to:

5. Factorization of $x^2 - 2x + 1$ is:

6. What is the square root of $[-(a+b-c)]^2$?

7. Which one of the following is a solution of $6 - \frac{2}{3}x \leq 0$?

8. Which of the following lines passes through (0,0)?

17



Answer Sheet No. 2021A

Sign. of Candidate 2022



Sign. of Invigilator

MATHEMATICS SSC-I
(Science Group)
SECTION - A (Marks 15)
Time allowed: 20 Minutes

ہر سوال کے ساتھ دیے گئے دو یا دو سے زائد جوابوں میں سے صحیح جواب کو منتخب کرنا ہے۔

ہر سوال کے ساتھ دیے گئے دو یا دو سے زائد جوابوں میں سے صحیح جواب کو منتخب کرنا ہے۔

1. $1-by-3$ $2-by-2$ $3-by-1$ $3-by-2$

2. -3^2 1 1 -1 -1

3. $\log_3 3$ 3 0 0.48 Not Possible

4. $\frac{1}{2-\sqrt{3}}$ $1+\sqrt{3}$ $2+\sqrt{3}$ $-2-\sqrt{3}$

5. $x^2 - 2x + 1$ $(x-1)^2$ $(x+1)^2$ $(x-1)(x+1)$ $(x+2)(x-1)$

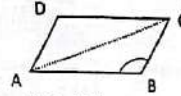
6. $[-(a+b-c)]^2$ $-(a+b+c)$ $\pm(a-b+c)$ $-(a+b-c)$ Not Possible

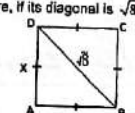
7. $6 - \frac{2}{3}x \leq 0$ $x \geq 9$ $x \geq -9$ $x \leq 9$ $x \leq -9$

8. $(0,0)$ $x-1=0$ $y=2$ $y=2x+3$ $y=2x$

9. If medians of a triangle are equal in length, then the triangle is:
 اگر وسطوں کے برابر ہوں تو اس مثلث کا کون سا نام ہے؟
 Equilateral Scalene Isosceles Right isosceles

10. If one interior angle of a parallelogram is 60° , then its opposite interior angle is:
 اگر کسی ایک داخلی زاویہ 60° ہے تو اس کا مخالف داخلی زاویہ کیا ہے؟
 60° 120° 180° 360°

11. In a parallelogram ABCD, if $m\angle B$ is obtuse then the longest segment is:
 ایک متوازی السطوح ABCD میں اگر $m\angle B$ ایک منفرج زاویہ ہے تو اس میں سب سے لمبے کون سا حصہ ہے؟

 \overline{AD} \overline{AC} \overline{BD} \overline{BC}

12. What is the length of the side of a square, if its diagonal is $\sqrt{8}$ cm long?
 مربع کے کسی ایک طرف کی لمبائی کی طرف سے اس کے قطر کی لمبائی $\sqrt{8}$ cm ہے تو اس کے کسی ایک طرف کی لمبائی کیا ہے؟

 3 2 4 8

13. What is the solution set of $|x+7|+7=0$?
 $|x+7|+7=0$ کے حل کا مجموعہ کیا ہے؟
 $\{1\}$ $\{(-14,0)\}$ $\{0,-14\}$ $\{14,-4\}$

14. Which one of the following is a point of intersection of the angle bisectors of a triangle?
 کسی مثلث کے داخلی زاویوں کے وسطوں کے تقاطع کے کون سے نقطوں میں سے ایک؟
 In-centre Circum centre Orthocentre Centroid

15. The simplified form of $\frac{12x^2(x^2)^4}{3x^3}$ is:
 $\frac{12x^2(x^2)^4}{3x^3}$ کی سادہ شکل کیا ہے؟
 $4x^{11}$ $4x^{12}$ $4x^7$ $4x^4$



ROLL NUMBER

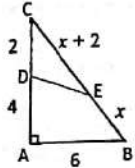
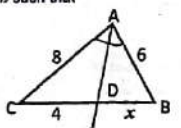
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Time allowed: 2:40 Hours Total Marks Sections B and C: 60
 NOTE: Answer any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. Logbook and graph paper will be provided on demand.

SECTION - B (Marks 36) (9 x 4 = 36)

- (i) Find the values of x and y if $-2 \begin{bmatrix} -x & 3 \\ 1 & -2 \end{bmatrix} + 4 \begin{bmatrix} -1 & 2 \\ 1 & -2y \end{bmatrix} = \begin{bmatrix} 0 & 2 \\ 2 & -12 \end{bmatrix}$
- (ii) Simplify the expression $\frac{2+3i}{2+i}$ and write the answer in the form $a+bi$
- (iii) Simplify $\left(\frac{x^2y}{x^2y}\right)\left(\frac{x^2y}{x^2y}\right)\left(\frac{x^2y}{x^2y}\right)$
- (iv) Find x if $\log_3(x^2-2)=2$
- (v) If $x=2-\sqrt{3}$, find the values of $x+\frac{1}{x}$ and $x-\frac{1}{x}$
- (vi) Factorize: $1-x^2-y^2+2xy$
- (vii) Find the square root of $9x^2-24x^2-14x^2+40x+25$
- (viii) Solve the inequality $\frac{x}{3} + \frac{x-3}{3} \geq \frac{2x}{3} - \frac{1}{3}(2x+3)$ where $x \in W$
- (ix) Solve: $\left|\frac{5+9x}{3}\right| = \frac{4}{3}$
- (x) Draw the graph of $y+4x+2=0$ by taking at least four ordered pairs.
- (xi) Using distance formula, show that points $A(12,8), B(-2,6)$ and $C(6,0)$ form a right triangle.
- (xii) Any point inside an angle, equidistant from its arms, is on the bisector of it. Prove it.
- (xiii) In $\triangle ABC$, internal angle bisector of $\angle A$ meets \overline{BC} at the point D such that $m\overline{BD}:m\overline{DC} = m\overline{AB}:m\overline{AC}$. Find the value of x .



(xiv) In right $\triangle ABC$, find the value of x if $\overline{DE} \parallel \overline{AB}$.

SECTION - C (Marks 24) (3 x 8 = 24)

- Note: Attempt any THREE questions. All questions carry equal marks.
- Q.3 Solve the following system of linear equations by using the matrix inversion method. $4x-6y=-2, x+3y=7$
 - Q.4 Show that the points $A(2,-3), B(6,-3), C(6,4)$ and $D(2,4)$ are the vertices of a rectangle.
 - Q.5 Solve the system of linear equations $x+2y=-1, 4x-3y=18$ by using the graphical method.
 - Q.6 If two opposite sides of a quadrilateral are congruent and parallel, it is a parallelogram. Prove it.
 - Q.7 From the following data, construct a triangle ABC. Draw two altitudes of triangle ABC. Write the construction steps also. $m\overline{AB}=5cm, m\angle A=45^\circ, m\overline{BC}=6cm$

39

Version No.
1 1 1 1

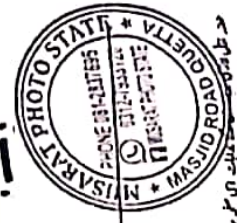
ROLL NUMBER

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



Answer Sheet No. **Computer**

Sign. of Candidate **2022**



Sign. of Invigilator

کے نام سے دیا گیا ہے اور اسے اس کے نام سے لکھنا ہے۔
اس کے نام سے دیا گیا ہے اور اسے اس کے نام سے لکھنا ہے۔

COMPUTER SCIENCE
SSC-I

SECTION - A (Marks 12)
Time allowed: 15 Minutes

Fill the relevant bubble against each question:

- Input was based on punched cards in _____ generation of computers.
کے ذریعے پر مشتمل پہلی نسل کی کمپیوٹرز تھیں۔
 - First پہلی
 - Second دوسری
 - Third تیسری
 - Fourth چوتھی
- Which of the following network topologies uses a device called terminator?
کون سے نیچے دی گئی نیٹ ورک ٹوپالوجیوں میں سے کون سی ڈیوائس کو ٹرمینیشن ڈیوائس کہتی ہے؟
 - Star Topology ستار ٹوپالوجی
 - Bus Topology بس ٹوپالوجی
 - Mesh Topology مش ٹوپالوجی
 - Ring Topology رینگ ٹوپالوجی
- _____ is used for creating 'decorative' effects in word.
_____ کے ذریعے الفاظ میں 'دکھانے والے' اثرات بنائے جاتے ہیں۔
 - Equation Editor مساوات ایڈیٹر
 - Formulas فارمولے
 - Word Art ورڈ آرٹ
 - Hyperlink ہائپر لنک
- Which of the following commands in excel (spread sheet) allows the user to view only certain data in worksheet based on condition?
کون سے نیچے دی گئی ایکسل (سپریڈ شیٹ) کے کمانڈز میں سے کون سا صارف کو ایک شرط کے مطابق صرف مخصوص ڈیٹا کو دیکھنے کی اجازت دیتا ہے؟
 - Data Manipulation ڈیٹا منیپولیشن
 - Page Formatting پیج فارمیٹنگ
 - Data Filtering ڈیٹا فلٹرنگ
 - Data Validation ڈیٹا ویلڈیشن
- Which of the following devices is used for connecting computers in wired Local Area Network (LAN)?
کون سے نیچے دی گئی ڈیوائسوں میں سے کون سی وائرڈ لوکل ایریا نیٹ ورک (LAN) کے کمپیوٹرز کو ملانے کے لیے استعمال کی جاتی ہے؟
 - Bluetooth Device بلوٹوتھ ڈیوائس
 - Dial up modem ڈیال اپ مڈیم
 - Switch سچ
 - Satellite سیٹلائٹ

6. Which of the following is NOT an authentication method for ensuring security?
 Username and password Adware Biometrics Personal Identification Number

7. The impairment that refers to undesired signals that enter the path of the transmitted signal due to electromagnetic radiation is:
 Distortion Attenuation Cross talk Noise

8. Which of the following topologies is MOST expensive to implement?
 Star topology Bus topology Mesh topology Ring topology

9. Which one of the following will allow users to give commands in any natural language such as English?
 Fifth generation computers First generation computers Second generation computers Fourth generation computers

10. Which one of the following is GUI operating system?
 UNIX DOS Windows Menu Driven OS

11. In which of the following transmissions the time-interval between the characters is always the same?
 Asynchronous Synchronous Satellite Microwave

12. _____ allows the user to access the contents of computer drives and manage files and folders.
 Program icon Computer icon File icon Recycle Bin icon

—ISA-I 2211-1111—

ROLL NUMBER

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Time allowed: 2:45 Hours

NOTE: Answer any nine 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.

Total Marks Sections B and C: 43

Q. 2 SECTION - B (Marks 27)
 Attempt any NINE parts. All parts carry equal marks.

(9 x 3 = 27)

- (i) Differentiate between RAM and ROM.
- (ii) What is meant by managing data and why is it important?
- (iii) Why is operating system an important software for a computer? Give any three reasons.
- (iv) What is dial up modem and why it is used?
- (v) Differentiate between 'page break' and 'section break' in MS Word (Word processor).
- (vi) What is meant by:
 - a. Port
 - b. Expansion card
 - c. Expansion slot
- (vii) Enlist any three uses of computer in media.
- (viii) Write any three limitations of ring topology.
- (ix) Enlist any three actions performed by spyware.
- (x) State the difference between 'authentication' and 'authorization' with examples.
- (xi) Mention any three problems which may occur if peer-to-peer network is used for a large number of users in an organization.
- (xii) Compare 'DSL' and 'Dial up line' in terms of:
 - a. Transfer rate
 - b. Cost per month
 - c. Disadvantage
- (xiii) What happens if storage devices are removed from computer system?



SECTION - C (Marks 16)

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

(2 x 8 = 16)

- Q. 3 Describe the following guided media on basis of structure, purpose, speed and cost.
 - a. Twisted Pair Cable
 - b. Fiber Optic Cable
- Q. 4
 - a. Describe any four uses of networks.
 - b. Compare LAN and WAN.
- Q. 5
 - a. Explain basic operations of a computer.
 - b. Describe following components of communication system.

Sender	Receiver	Message	Protocol
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Roll No. Answer Sheet No. Sig. of Candidate. 1Sig. of Invigilator. English

9th CLASS
ENGLISH COMPULSORY SSC-I
SECTION - A (Marks: 15)

2019
 فيدرل بورڈ
 English

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) In Pakistan, there are almost _____ drug addicts.
 A. Two million B. Three million C. Five million D. Ten million
- (ii) Noise pollution is one of the biggest sources of discomfort and nuisance in Pakistan. The underlined word means:
 A. Annoyance B. Comfort C. Enjoyment D. Sleeplessness
- (iii) After reading the poem, "Stopping by Woods on a Snowy Evening", we:
 A. Feel fed up with life B. Get ready to face the challenges of life
 C. Wish to go on a journey D. Wish to sleep for a long time
- (iv) As per custom, the Sultan Ahmad Mosque comprises a Madrassah, a hospice and a/the:
 A. Burial chamber B. Cellar C. Gallows D. Tomb of the founder
- (v) The Quaid was a man of strong faith and belief. The underlined word means:
 A. Firm faith B. Powerful faith C. Uncertain faith D. Wavering faith
- (vi) The phrase 'rugged and rough path' appeals to our sense of:
 A. Hearing B. Smell C. Taste D. Touch
- (vii) He spoke very loudly. The underlined word is an adverb of:
 A. Degree B. Frequency C. Manner D. Time
- (viii) The galloping horse scared the child. The underlined word is a/an:
 A. Gerund B. Infinitive
 C. Present participle D. Past participle
- (ix) A _____ of ships stood at the harbour. The correct collective noun for this would be:
 A. Fleet B. Flight C. Herd D. Team
- (x) Nobody was there to rescue the child. The underlined word is a/an:
 A. Demonstrative pronoun B. Indefinite pronoun
 C. Possessive pronoun D. Reflexive pronoun
- (xi) I _____ living in this house since 1970.
 A. Has been B. Have been C. Was D. Will be
- (xii) I soon returned home because I was upset. It is a:
 A. Complex sentence B. Compound sentence
 C. Compound-complex sentence D. Simple sentence
- (xiii) The dog sat _____ his master.
 A. Across B. Along C. Beside D. Over
- (xiv) He tells a tale that sounds untrue. The underlined part of the sentence is a/an:
 A. Adverb clause B. Adjective clause
 C. Noun clause D. Independent clause
- (xv) Choose the correct spelling:
 A. Flamboyant B. Flameboyant C. Flenboyant D. Flambuoyant

9th Class
 FEDERAL BOARD
 2019

For Examiner's use only:

Total Marks: Marks Obtained: 



ENGLISH COMPULSORY SSC-I

2

2

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Sections B and C comprise Pages 1-2. Answer all the questions from Sections 'B' and 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 39)

Q. 2 Answer any SIX of the following parts in about 30 to 40 words each. Each part carries 3 marks.

(6 x 3 = 18)

- (i) Why did the pagan Arabs threaten the Holy Prophet's (ﷺ) uncle?
- (ii) How will you define patriotism?
- (iii) What happens when media is allowed to play its role unchecked? (Media and Its Impact)
- (iv) What can be the possible solution to our present problems? (Refer to the lesson 'The Quaid's Vision and Pakistan')
- (v) How does the interior of the Sultan Ahmad Mosque look?
- (vi) Why do families feel reluctant to take the drug victims to drug rehabilitation centers?
- (vii) How is construction work a cause of noise pollution? (Noise in the Environment)
- (viii) How did Hazrat Asma (RA) console her grandfather?

Q. 3 a. Paraphrase any ONE of the following stanzas:

(03)

(i) My little horse must think it queer
To stop without a farm house near
Between the woods and frozen lake
The darkest evening of the year.



(ii) For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.

b. Read the following stanza carefully and answer the questions given at the end:

(06)

The woods are lovely, dark and deep,
But I have promises to keep,
And miles to go before I sleep,
And miles to go before I sleep.

Questions:

- (i) Name the poem this stanza has been taken from. Also state the name of the poet.
- (ii) The speaker in the poem is captivated by the beauty of nature. Why doesn't he stop for long to enjoy it?
- (iii) Identify the alliteration and imagery used in the stanza.

Q. 4 a. Change the Voice of any FOUR of the following:

(04)

- (i) They had gained nothing.
- (ii) The driver opened the door of the car.
- (iii) He will give you a box of chocolates.
- (iv) We use milk for making cheese.
- (v) A car ran over an old man.
- (vi) They are buying this house.
- (vii) We did not hear a sound.





ENGLISH COMPULSORY SSC-I

2

2

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Sections B and C comprise Pages 1-2. Answer all the questions from Sections 'B' and 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 39)

Q.2 Answer any SIX of the following parts in about 30 to 40 words each. Each part carries 3 marks. (6 x 3 = 18)

- (i) Why did the pagan Arabs threaten the Holy Prophet's (ﷺ) uncle?
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- (iii) What happens when media is allowed to play its role unchecked? (Media and Its Impact)
- (iv) What can be the possible solution to our present problems? (Refer to the lesson "The Quaid's Vision and Pakistan")
- (v) How does the interior of the Sultan Ahmad Mosque look?
- (vi) Why do families feel reluctant to take the drug victims to drug rehabilitation centers?
- (vii) How is construction work a cause of noise pollution? (Noise in the Environment)
- (viii) How did Hazrat Asma (RA) console her grandfather?

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To stop without a farm house near
Between the woods and frozen lake
The darkest evening of the year.



(ii) For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.

b. Read the following stanza carefully and answer the questions given at the end: (06)

The woods are lovely, dark and deep,
But I have promises to keep,
And miles to go before I sleep,
And miles to go before I sleep.

Questions:

- (i) Name the poem this stanza has been taken from. Also state the name of the poet.
- (ii) The speaker in the poem is captivated by the beauty of nature. Why doesn't he stop for long to enjoy it?
- (iii) Identify the alliteration and imagery used in the stanza.

Q.4 a. Change the Voice of any FOUR of the following: (04)

- (i) They had gained nothing.
- (ii) The driver opened the door of the car.
- (iii) He will give you a box of chocolates.
- (iv) We use milk for making cheese.
- (v) A car ran over an old man.
- (vi) They are buying this house.
- (vii) We did not hear a sound.



b. Provide correct form of Verb of any FIVE of the following sentences: (05)

- (i) He (take) the examination next year.
- (ii) If I (go) out, I will turn off the T.V.
- (iii) The baby (cry) for milk now.
- (iv) I already (take) three cups of coffee.
- (v) It (begin) to rain an hour ago.
- (vi) Ali (prepare) for his examination since October.
- (vii) The sun (set) in the west.
- (viii) You (rest) since morning.



c. Punctuate and capitalize the following para / line(s): (03)

If I were the president of a university, I would establish a compulsory course in how to use your eyes

SECTION - C (Marks 21)

Q. 5 Write a letter to your father requesting him to send you some extra money for the payment of hostel dues. (08)

-OR-

Write a letter to your friend thanking him/her for the books he/she lent you.

Q. 6 Write a paragraph of about 60 to 70 words on "Pakistani Women". (05)

Q. 7 Translate any EIGHT of the following sentences into English: (08)

- | | |
|--|---------------------------------------|
| (i) تم مکان ب نکالی کر کے؟ | (i) سرور مشور اور باہوگ |
| (ii) فوٹو کو کھینچتے ہو بہانہ کیا گیا۔ | (ii) شہ سے پہلے سفر کر گئے اور وہ تھا |
| (iii) بڑھاپے کوئی کر کے سنا دیا گھر راقب | (iii) یہ خبر پڑھی کیے گا کی؟ |
| (iv) آج سخت گرمی ہے۔ | (iv) کچا بیج نہایت ک تم پر پکا ہے |
| (v) اب سات بیچے ہیں۔ | (v) مٹے بلاتے شہ سے تم کے گھر رفت ہے |
| (vi) دہلی میں لے آئیں مجھ کو اپنی سائل۔ | (vi) وہ کجا میرا کجا ہے لگے |

-OR-

Write a dialogue between a student who came late to school and his / her teacher.

-OR-

Write a dialogue between a police officer and a young man regarding the whereabouts of the nearest market.

— ISA 1901 (L) —



Roll No. [] [] [] [] [] []

Answer Sheet No.

2019 آرڈو



Sig. of Candidate



آرڈو (لازمی) ایس ایس سی-1

حصہ اول (کل نمبر: 15)

وقت: 20 منٹ

نوٹ: حصہ اول میں سے کسی بھی دو سوالات کو منتخب کر کے حل کریں۔ حصہ اول میں سے کسی بھی دو سوالات کو منتخب کر کے حل کریں۔

- سوال نمبر
- (i) خبر چیک کر کے ڈسٹرکٹ کے محکمہ سے کون سا حکم کرنا؟
 افسر مریض سے ماریشیا سے
 (i) مریض سے ماریشیا سے
 - (ii) سرور مشور نے تم پر کیا کچا بیج کھینچا ہے؟
 افسر میں سے پاپس سے
 (ii) پاپس سے
 - (iii) راجہ پرکاش "پاکستان خواتین" کون سا ٹرانس کرے گا؟
 افسر عزیز حسن کا کسی سے
 (iii) عزیز حسن کا کسی سے
 - (iv) کلاس کا مسات کے کئے ملے ہو؟
 افسر ایک سے
 (iv) ایک سے
 - (v) گولیاں لگانے کے پارہت سے
 افسر خوش سے
 (v) خوش سے
 - (vi) مسٹر کے بیچے کو روز بروز بڑھنے سے کہتا ہے؟
 افسر بڑھ سے
 (vi) بڑھ سے
 - (vii) امرت علی کی بھینسوں میں کون سا رنگ ہے؟
 افسر آد سے
 (vii) آد سے
 - (viii) افسر آد سے
 افسر آد سے
 (viii) آد سے
 - (ix) افسر آد سے
 افسر آد سے
 (ix) آد سے
 - (x) افسر آد سے
 افسر آد سے
 (x) آد سے
 - (xi) افسر آد سے
 افسر آد سے
 (xi) آد سے
 - (xii) افسر آد سے
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 (xii) آد سے
 - (xiii) افسر آد سے
 افسر آد سے
 (xiii) آد سے
 - (xiv) افسر آد سے
 افسر آد سے
 (xiv) آد سے
 - (xv) افسر آد سے
 افسر آد سے
 (xv) آد سے

پلے نمبر: [] [] [] [] [] []

15

ازدو (لازمی) ایس ایس سی-۱

5.



8

وقت: 2:40 گھنٹے

کل نمبر مضامین اردو 60

نوٹ: غرضہ اردو مضامین 2-1 پر مشتمل ہے ان سوالات کے جوابات مجھ سے یہاں لکھنا چاہئے اور یہاں لکھنے پر ہونا لازمی ہے۔ آپ کے جوابات صاف ہونا چاہئیں۔

مضامین (کل نمبر 34)

سوال نمبر 24 الف- فضائی سرب کی مدد سے منصفی میں سے ماہ (2) (1) کے تین سے چار سطور تک مضامین لکھیں: (24=120)



- (i) مسقف نے کہے تھے بہت بڑا کیا کرنا تھا اب کام مولدوں کو تھا؟
- (ii) خوب نامیہ کے سر بیرون میں کھرا کر کہاں تھا؟
- (iii) ڈبلیو نڈرا جس نے اپنے ہاتھوں سے کیا فوج سے مراد کیا ہے؟
- (iv) جمن ٹیچ اور آگ جو دھڑکی میں دوئی کا آغاز کیا ہے کیا ہے؟
- (v) امتحان کے دن تھرپا نے پڑھنے کو کہا کہ دو سطور لکھیں کیا سال مقرر ہے؟
- (vi) ہمیں کس لحاظ سے انسان سے زیادہ بڑی نصیب ہے؟
- (vii) "موم" کے مطابق کچھ لوگ رنگ و مصیبت میں کس کا "بھوکا" کرتے ہیں اور ان کو کچھ کیا پھرتا ہے؟
- (viii) نعت کے مطابق شاہر کس کو کہتا ہے؟ ناک مہتا پاتا ہے؟ خیر ہے اس میں کیا فائدہ پھرتا ہے؟
- (ix) نظیر کریم آبادی نے اپنی شاعری کے لیے کون سے موضوعات کا انتخاب کیا؟
- (x) روزگ نے آخر کو کھڑے کر کے کہاں نکال دیا؟
- (xi) علامہ اقبال کی کوئی شاعر اور کتب کے موضوعات تحریر کریں۔
- (xii) برقی پھر کے کھار کی چند خصوصیات تحریر کریں۔
- (xiii) حیدر علی آگھی کا بچپن کی تصویر سے بچے کو کس طرح ہے؟
- (xiv) غزل کے مطابق روزگشی کے کلب پر کیا قصا ہے؟

(5x2=10)



- ب۔۔۔ صحیح ذیل میں سے کوئی سے پانچ اجزاء لکھیے۔
- (i) عابدہ کی تعریف کس کی اور کوئی سے دو قصائے تحریر کریں۔
 - (ii) جنت اور نذر میں کیا فرق ہے؟ مثال سے کروا کر لکھیں۔
 - (iii) بازار میں کیا بھی صورتیں ہیں کوئی دو کی مثال دیں۔
 - (iv) روح ذیل الفاظ کو متعلقوں میں شامل کریں کہہ کر پورا نثر جمع کرو جائے:
 - مراب لب
 - مضرب ذیل مرکبات کون سے ہیں؟
 - بچے کے کلب رخ نورنگ
 - روح ذیل الفاظ کے واحد جمع لکھیں۔
 - طیر لٹ
 - (v)
 - (vi)

اسلامیات (لازمی) ایس ایس سی-1



وقت: 2:15 گھنٹے
 حصہ دوم اور سوم کے تمام سوالات اور حصہ سوم میں سے کوئی سے دو (02) سوال حل کریں۔
 (Sheet-B) طلب کرنے پر سوا کی جائے گی آپ کے جوابات صاف لکھائے جائیں۔

حصہ دوم (کل نمبر 24)

(3x3=9)

سوال نمبر 1: صحیح اور غلط کی ایک ہی مثال دیا جائے تاکہ اس کا جواب صحیح ہو سکے۔

- (i) إِنَّكَ السَّمِيعُ الْبَصِيرُ إِنَّكَ الْغَنِيُّ الْكَافِي إِنَّكَ الْغَالِبُ الْغَالِبُ إِنَّكَ الْغَالِبُ الْغَالِبُ
- (ii) يَا أَيُّهَا الَّذِينَ آمَنُوا لَا تَتَّبِعُوا هَذِهِ السُّبُلَ وَالَّتِي عَلَيْهَا كُفْرٌ وَأَكْبَرُ كُفْرًا وَأَكْبَرُ كُفْرًا وَأَكْبَرُ كُفْرًا
- (iii) وَكَانَ اللَّهُ وَرَسُولُهُ وَالْمُؤْمِنُونَ عَلَى ظُلْمٍ وَالظَّالِمِينَ عَلَيْهِمْ عَذَابٌ أَلِيمٌ
- (iv) كَذَلِكَ نَقُصُّ عَلَيْكَ نَبَأَ الْيَتِيمِ الَّذِي كَفَرْنَا بِهِ نَلْمُوهُ وَإِنَّهُ يَكْفُرُ بِالْإِسْلَامِ
- (v) وَإِنْ جَحَدْتُمُوسَىٰ مَا جَحَدْنَا لَهُ وَكَانَ اللَّهُ عَلَى الْكَافِرِينَ

(2+2+1=5)

سوال نمبر 2: صحیح اور غلط کی ایک ہی مثال دیا جائے تاکہ اس کا جواب صحیح ہو سکے۔

- (i) أَفَلَا لَأَعْمَالٍ لِّالَّذِينَ لَا يَرْجُونَ إِلَهَ إِلَّا اللَّهَ وَأَقْسَمُوا بِرَحْمَةِ اللَّهِ
- (ii) مَنْ جَاءَ عَلَىٰ عُرْسِكُمْ فَلَا مَدْرَأَ لَكُم بِهِ وَالْمُنَافِقُ فِيكُمْ فَجَاهِدْ فِي سَبِيلِ اللَّهِ

(5x2=10)

سوال نمبر 3: صحیح اور غلط کی ایک ہی مثال دیا جائے تاکہ اس کا جواب صحیح ہو سکے۔

- (i) دو گروہوں (مطالعین) کے کیا روابط ہیں؟
- (ii) کفار کے مقابلے کے بارے میں اللہ تعالیٰ نے ان پر خطاب کیا؟
- (iii) خود بد میں مسلمانوں کی صورت کے لیے ہزل سے دو لفظ لیں جو کہ کفر یا کفر سے متعلق ہیں؟
- (iv) سورۃ انفال میں جہاد کی تعریف کے بارے میں اللہ تعالیٰ نے کیا فرمایا ہے؟
- (v) قرآن مجید کو کچھ اور حکمانے کے حلقوں کی حد سے کاتر کر لیں۔
- (vi) فتح نہایت کا نام بیان کریں۔
- (vii) معاویہؓ کو "الرقاب" اور "الغارمین" کا نام دیا گیا ہے۔

حصہ سوم (کل نمبر 16)

(2x8=16)

(کوئی سے دو سوال حل کیجئے تاکہ تمام سوالوں کے نمبر پورے ہوں۔)

سوال نمبر 4: شمال آفریقہ پر مشتمل آرتھوپورس۔

سوال نمبر 5: قوم کھلمیہ پران کریم فرم کی تعلیمات اور اہمیت کی بیان کیجئے۔

سوال نمبر 6: معاویہؓ کو "الرقاب" اور "الغارمین" کا نام دیا گیا ہے۔



Roll No. _____

Sig. of Candidate. _____

Answer Sheet No. _____

Sig. of Invigilator. _____

PAK Studios

PAKISTAN STUDIES SSC-I
 SECTION - A (Marks 10)

Time allowed: 15 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 15 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Q.1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
- (i) Who gave the Presidential Address in the Resolution of Lahore, 23rd March 1940 AD?
 - A. The Quaid-e-Azam
 - B. Tiger of Bengal A.K. Fazl-ul-Haque
 - C. Maulana Muhammad Ali Jauhar
 - D. Liaquat Ali Khan
 - (ii) The word "Pakistan" was coined by:
 - A. Allama Muhammad Iqbal
 - B. Sir Agha Khan
 - C. Choudhary Rehmat Ali
 - D. Sir Syed Ahmad Khan
 - (iii) When did the Quaid-e-Azam present his famous fourteen points?
 - A. 1908 AD
 - B. 1919 AD
 - C. 1929 AD
 - D. 1939 AD
 - (iv) When was the Battle of Palasi fought?
 - A. 1757 AD
 - B. 1657 AD
 - C. 1557 AD
 - D. 1857 AD
 - (v) The total area of Pakistan is:
 - A. 696095 sq. kilo meter
 - B. 795095 sq. kilo meter
 - C. 896096sq. kilo meter
 - D. 796096sq. kilo meter
 - (vi) What percent part of the total area of Pakistan is covered with forests?
 - A. 0.5
 - B. 5
 - C. 15
 - D. 25
 - (vii) Along the borders of Pakistan and China there is mountain range of:
 - A. Himalayas
 - B. Siwalk
 - C. Karakoram
 - D. Hindu Kush
 - (viii) Indus Water Treaty was brokered by:
 - A. Trusteeship Council
 - B. Security Council
 - C. The International Court
 - D. The World Bank
 - (ix) The First Constitution of Pakistan was implemented in the country in:
 - A. 1958 AD
 - B. 1956 AD
 - C. 1954 AD
 - D. 1955 AD
 - (x) The World War II broke out in:
 - A. 1914 AD
 - B. 1919 AD
 - C. 1939 AD
 - D. 1945 AD

For Examiner's use only:

Total Marks:

Marks Obtained:

10





PAKISTAN STUDIES SSC-I

18

Time allowed: 2:15 Hours

Total Marks Sections B and C: 40

NOTE: Answer any Eight 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.

SECTION - B (Marks 24)

Q. 2 Answer briefly any eight of the following questions.

(8 x 3 = 24)

- What is meant by ideology of Pakistan?
- What did the Quaid-e-Azam say about Nationalism?
- What was the reply of the Quaid-e-Azam in Jinnah - Gandhi talks 1944 AD?
- Write the text of Pakistan Resolution.
- Write the names of the members of cabinet mission plan 1946 AD.
- Describe the location of Pakistan.
- In which mountain range are the Topi pass and Gomal pass situated?
- What steps are being taken by the government to improve forest?
- What do you mean by Economic Development?
- Write any three points of Muslim Family Laws Ordinance 1961 AD.
- Which areas of Muslim majority, India got as a result of unjust division by Radcliffe?

SECTION - C (Marks 16)

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

(2 x 8 = 16)

- Explain the role of the Quaid-e-Azam as first governor general of Pakistan.
- Describe the importance of plain region of Pakistan.
- Write the salient features of the cabinet mission plan 1946 AD.

(8x3=24)

حصہ دوم (کل نمبر 24)

سوال نمبر 2: درج ذیل میں سے کوئی سے آٹھ سوالات کے مختصر جوابات تحریر کیجئے۔

- تقریر پاکستان سے کیا مراد ہے؟
- قائد اعظم کو مل جاتا ہے تو قومیت کے بارے میں کیا فرمایا؟
- جناح کو کونسی مذاکرات 1944 میں تھوڑے عرصے کا خطاب تحریر کرنا۔
- قرارداد پاکستان کونسی بیان کیجئے۔
- کابینہ مشن پلان 1946ء کے کباروں کے نام تحریر کیجئے۔
- پاکستان کا کونسا پورٹریا جان کیجئے۔
- وڈ ٹوپی اور وڈ گولڈ کس پہلا ہی سلسلے کا واقعہ ہے؟
- پنگتوں کی بہتری کے لیے حکومت کی اقدامات کونسی ہیں؟
- سائنس ترقی سے کیا مراد ہے؟
- مسلم لیگی لارڈ راجس 1961ء کے کوئی سے تین نکات تحریر کرنا۔
- وڈ کلف کی غیر متوازن تقسیم سے کون کون سے مسلم اکثریت والے علاقے مہارت کے پاس چلے گئے؟
- وڈ کلف کی غیر متوازن تقسیم سے کون کون سے مسلم اکثریت والے علاقے مہارت کے پاس چلے گئے؟



(2x8=16)

حصہ سوم (کل نمبر 16)

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

سوال نمبر 3: پاکستان کے پہلے گورنر جنرل کی حیثیت سے قائد اعظم کا کردار واضح کیجئے۔

سوال نمبر 4: پاکستان کے میدانی علاقے کی اہمیت بیان کیجئے۔

سوال نمبر 5: کابینہ مشن پلان 1946ء کے کباروں کے نام بیان کیجئے۔



Roll No.

Sig. of Candidate.

Answer Sheet No.

Sig. of Invigilator.



PHYSICS 2019

PHYSICS SSC-I

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A/B/C/D. Each part carries one mark.

- $0.000000081m = \dots m$
A. 0.081 B. 0.81 C. 8.1 D. 81.0
- $108 kmh^{-1} = \dots ms^{-1}$
A. 10 B. 20 C. 30 D. 40
- Change in position is called:
A. Speed B. Velocity C. Displacement D. Distance
- What is SI unit of coefficient of friction?
A. Metre B. Kilogram C. Second D. No unit
- Mass of a body is 2000 g. Its weight on the surface of earth is:
A. 20000 N B. 2 N C. 20 N D. 0.2 N
- If $F = 200N$ and $\theta = 30^\circ$ with horizontal then what will be the value of F_x ?
A. 50 N B. 100 N C. 173.2 N D. 200 N
- The value of g on moon's surface is $1.6 ms^{-2}$. What will be the weight of a 100 kg body on the surface of the moon?
A. 100 N B. 160 N C. 1000 N D. 1600N
- A body of mass 50 kg is raised to a height of 3 m. What is its potential energy?
A. 500 J B. 1000 J C. 1500 J D. 150 J
- Pressure of 76 cm of mercury column is $\dots Pa$.
A. 10,300 B. 13,100 C. 101,100 D. 101,300
- In which of the following the molecules do not leave their mean position?
A. Solid B. Liquid C. Gas D. Plasma
- On Fahrenheit scale, the interval between lower and upper fixed points is divided into equal parts.
A. 180 B. 32 C. 212 D. 273
- SI unit of thermal conductivity is:
A. Wk^{-1} B. $Wm^{-1}k^{-1}$ C. Wmk^{-1} D. $Wm^{-1}k$

For Examiner's use only:

Total Marks:

Marks Obtained:

12





PHYSICS SSC-I

12

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

- Q. 2 Answer any ELEVEN parts. The answer to each part should not exceed three to four lines. (11 x 3 = 33)
- Define 'base quantities' and 'derived quantities'. Also give one example of each.
 - Express the following quantities using prefixes:
 - 5000g
 - 2000000H
 - 52×10^{-10} kg
 - Draw distance time graphs for an object
 - At rest
 - Moving with constant speed
 - Moving with variable speed
 - A body of mass 5 kg is moving with a velocity of 10 ms^{-1} . Find the force required to stop it in 2 seconds.
 - Friction is a necessary evil. Why?
 - Two children are sitting on the see-saw such that they cannot swing. What is the net torque in this situation?
 - What is the relation between stability and position of centre of mass?
 - How can you say that gravitational force is a field force?
 - What is chemical energy? Explain briefly.
 - A girl carries a 10 kg bag upstairs to a height of 18 steps, each 20 cm high. Calculate the amount of work she has done to carry the bag. ($g = 10 \text{ ms}^{-2}$)
 - The weight of a metal spoon in air is 0.48 N, its weight in water is 0.42 N. Find its density.
 - What is up thrust? Explain the principle of floatation.
 - Why is water used in cooling system of automobiles?
 - How does bimetallic strip work?
 - Deserts soon get hot during the day and soon get cold after sunset. Why?

SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3
- What is a physical balance? Explain. (03)
 - Derive $2aS = v_f^2 - v_i^2$. (04)
 - A body has weight 20 N. How much force is required to move it vertically upwards with an acceleration of 2 ms^{-2} ? (03)
- Q. 4
- What is meant by stable and unstable equilibrium? Explain. (2+2)
 - Derive an expression for the orbital speed of an artificial satellite. (04)
 - A motor boat moves at a steady speed of 4 ms^{-1} . Water resistance acting on it is 4000N. Calculate the power of its engine. (02)
- Q. 5
- Write a note on hydraulic braking system in vehicles. (03)
 - A container has 2.5 litres of water at 20°C . How much heat is required to boil the water? (03)
 - Write a note on application and consequences of radiation. (2+2)

— ISA 1907 (L) —



CHEMISTRY SSC-I

24

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

- Q. 2 Answer any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)
- Define molecular mass and formula mass. Also write an example of each.
 - The atomic mass of copper metal is 63.6 amu. Calculate the mass of 3.5 moles of copper.
 - Write any three uses of isotopes in medical field.
 - Write the group and period number of Phosphorus $^{31}_{15}\text{P}$ and Boron $^{10}_5\text{B}$ from their valence shell electronic configuration.
 - Briefly explain the formation of ionic bond between Magnesium and Fluorine with the help of diagram.
 - Briefly explain the conduction of electricity by molten sodium chloride without diagram.
 - Differentiate diffusion and effusion.
 - What is meant by allotropes? Elaborate your answer briefly by writing about allotropes of phosphorus.
 - A chemist dissolves 11.2 g of KOH (molar mass 56) in two dm^3 of solution. Find its molarity.
 - Compare solution and suspension in three points.
 - Which substance is reduced and which one is oxidized in each of the following reactions:
 - $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
 - $\text{Cl}_2 + \text{H}_2\text{S} \rightarrow 2\text{HCl} + \text{S}$
 - $2\text{NH}_3 + 3\text{CuO} \rightarrow 3\text{Cu} + 3\text{H}_2\text{O} + \text{N}_2$
 - Explain Zinc plating with the help of chemical equations.
 - Which element is more metallic among Beryllium or Calcium? Give reason.
 - Write any one use of Magnesium.
 - Noble metals are inert. Elaborate this statement.
 - Write the electronic configuration of the following by using 1s, 2s form.
 - $^{35}_{17}\text{Cl}$
 - $^{31}_{15}\text{P}$
 - $^{20}_{10}\text{Ca}$

SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3
- A molecule has two nitrogen and four hydrogen atoms. If the symbols of nitrogen and hydrogen are $^{14}_7\text{N}$ and ^1_1H respectively then write its empirical formula and determine its molar mass. (1+3)
 - Define ionization energy and atomic size. Also write their trends in periodic table. (3+3)
- Q. 4
- Define octet rule. Using this rule, show the formation of carbon dioxide molecule with dot and cross model. (2+2)
 - Define Boyle's law. Volume of ethane gas is 2.5 dm^3 at 2.10 atm pressure. When its pressure is reduced to 1.05 atm its volume becomes 5.0 dm^3 . Explain this change using Boyle's law. (2+4)
- Q. 5
- Define solubility. Explain the effect of temperature on the solubility of ionic solids and gases. (1+4)
 - Explain the electrolytic refining of copper using a cell diagram. (4+1)

— ISA 1908 (L) —



Roll No. - - - - -
 Sig. of Candidate. _____

Answer Sheet No. _____
 Sig. of Invigilator. _____

CHEMISTRY SSC-I
SECTION - A (Marks 12)

CHEMISTRY
2019

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
- If the molar mass of a compound is 90 g/mole, the number of its moles containing 3.011×10^{24} molecules will be:
 A. 1.5 B. 3.0 C. 0.5 D. 4.5
 - The correct electronic configuration of $^{24}_{12}\text{Mg}$ is:
 A. $1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^2, 3d^4$ B. $1s^2, 2s^2, 2p^6, 3s^2$
 C. $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 4s^2, 3d^4$ D. $1s^2, 2s^2, 2p^6, 3s^2$
 - If you move from left to right in a period of periodic table, which of the following will NOT change?
 A. Atomic radius B. Atomic mass C. Shielding effect D. Nuclear charge
 - The bond which is formed by complete transfer of electrons from one atom to another is called:
 A. Covalent bond B. Hydrogen bond
 C. Co-ordinate bond D. Ionic bond
 - The melting point and boiling point of water are higher due to:
 A. Its covalent nature B. Hydrogen bonding
 C. Its higher molecular mass D. Its higher density
 - The equation $\frac{V}{T} = \text{constant}$ is the mathematical expression of:
 A. Charles's law B. Avogadro's law
 C. Boyle's law D. Law of diffusion
 - The direct conversion of a solid into vapours is called:
 A. Evaporation B. Melting C. Boiling D. Sublimation
 - An aqueous solution can dissolve 25 g of a solid at 25°C . If someone dissolves 20 g of this solid in water at 25°C then this solution will be called:
 A. Supersaturated solution B. Unsaturated solution
 C. Saturated solution D. Solution of liquid in liquid
 - A chemist dissolves 15 g of NaCl in 85g of H_2O . This solution is:
 A. 85% m/v NaCl solution B. 15% m/v NaCl solution
 C. 15% v/v NaCl solution D. 15% m/v NaCl solution
 - Gain of electrons and loss of oxygen is called:
 A. Oxidation B. Reduction C. Redox reaction D. Neutralization reaction
 - Which of the following is the reaction taking place at anode?
 A. $2\text{H}_{2(g)} + \text{O}_{2(g)} \rightarrow 2\text{H}_2\text{O}_{(l)}$ B. $\text{Zn}^{2+}_{(aq)} + 2e^- \rightarrow \text{Zn}_{(s)}$
 C. $\text{Cr}_{(s)} \rightarrow \text{Cr}^{3+}_{(aq)} + 3e^-$ D. $\text{Pb}_{(s)} + \text{Cl}_{2(aq)} \rightarrow \text{PbCl}_{2(aq)}$
 - Which of the following oxides is the most basic oxide?
 A. SrO B. BaO C. CaO D. MgO

For Examiner's use only:

Total Marks:

Marks Obtained:

— ISA 1908 (L) —



Roll No. - - - - -
 Sig. of Candidate. _____

Answer Sheet No. _____
 Sig. of Invigilator. _____

BIOLOGY SSC-I
SECTION - A (Marks 12)

BIOLOGY
2019

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
- Skin is an organ because it comprises of:
 A. Cells only B. Tissues only
 C. Both Cells and Tissues D. Both Cells and Systems
 - The unicellular organisms which resemble animals, lack both chlorophyll and cell walls are called:
 A. Algae B. Fungi C. Monera D. Protozoa
 - Which sample will be examined to find out whether the patient is infected with the malarial parasite or not?
 A. Blood B. Saliva C. Urine D. Faeces
 - The cell theory is NOT applicable to:
 A. Bacteria B. Virus C. Fungi D. Animals
 - Smooth form of endoplasmic reticulum is without:
 A. Golgi complex B. Ribosome C. Nucleus D. Mitochondria
 - Each diploid human cell contains 46 chromosomes. If such a cell undergoes mitosis, how many chromosomes will be found in the daughter cells which have just passed through telophase?
 A. 23 B. 46 C. 92 D. 184
 - If more substrate is added in an already going chemical reaction without changing its rate, the situation is termed as:
 A. Saturation B. Denaturation C. Composition D. Inhibition
 - A compound which is found in all living cells and play a key role in energy transformations is:
 A. Chlorophyll B. Thylakoid C. ADP D. ATP
 - During starch test, why is leaf boiled in ethanol?
 A. To kill its protoplasm B. To soften it
 C. To extract its chlorophyll D. To retain its starch
 - Villus contains vessels for the transport of food materials. What is transported by lacteal?
 A. Amino acids B. Blood
 C. Carbohydrates D. Fats
 - In which of the following plants, there will be NO transpiration?
 A. Plants growing in hilly regions B. Aquatic submerged plants
 C. Plants living in deserts D. Aquatic plants with floating leaves
 - Arteries have thick elastic walls because:
 A. Rapid blood flow at high pressure B. Slow blood flow at low pressure
 C. Rapid blood flow at low pressure D. Slow blood flow at high pressure

For Examiner's use only:

Total Marks:

Marks Obtained:

— ISA 1910 (L) —



16
BIOLOGY SSC-I

32

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

Q. 2 Attempt any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)

- (i) Define the following branches of Biology:
 - a. Entomology
 - b. Embryology
 - c. Physiology
- (ii) Why Ronald Ross used female Culex mosquito instead of female Anopheles mosquito in his experiments on malaria?
- (iii) Who proposed 3-kingdom classification system and what objections were raised against this system?
- (iv) Name any three Endangered species of animals in Pakistan.
- (v) Which group of organisms contain cell walls around their cells? Also write the composition of cell wall in each group.
- (vi) How is the structure of mitochondria related to its functions?
- (vii) Define following:
 - a. Facilitated diffusion
 - b. Osmosis
 - c. Active transport
- (viii) Apoptosis is considered as programmed cell death. Prove this by enlisting the steps of the process.
- (ix) Define crossing over. How is it significant?
- (x) How can enzymes lower the Activation energy?
- (xi) How does structure of ATP reveal that it is the energy currency of cell?
- (xii) Differentiate between Alcoholic and lactic acid fermentation.
- (xiii) What are the reasons for the creation of Transpiration Pull in plants?
- (xiv) How are erythrocytes different from leucocytes?
- (xv) Write sources, functions and deficiency symptoms of vitamin A.



SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3 a. What are Epithelial cells? Name their different types and write about their structure, location and functions. (1+5)
- b. Enlist the phases of Cell Cycle with labelled diagram. (3+1)
- Q. 4 a. Describe the process of aerobic respiration in detail with the help of labelled diagram. (5+2)
- b. High temperature denatures the enzymes. How? (03)
- Q. 5 a. The process of digestion completes in small intestine. Explain various steps of this process with labelled diagram. (4+2)
- b. Give a comparison of Pulmonary and Systemic circulation. (04)



Roll No. []
Sig. of Candidate []

Answer Sheet No. 27
Sig. of Invigilator []

MATHEMATICS SSC-I
SECTION - A (Marks 15)

MATH 2019

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil. (Science Group)

- Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
 - (i) A square matrix is called singular if its determinant is:
 - A. Negative
 - B. Positive
 - C. Zero
 - D. One
 - (ii) The value of i^{14} is:
 - A. 1
 - B. -1
 - C. i
 - D. -i
 - (iii) The logarithm of any number to itself as base is:
 - A. 1
 - B. 0
 - C. -1
 - D. 10
 - (iv) $a^2 - ab + b^2$ is a factor of:
 - A. $a^2 - b^2$
 - B. $a^2 + b^2$
 - C. $(a+b)^2$
 - D. $(a-b)^2$
 - (v) When $9x^2 - 6x + 2$ is divided by x , the remainder is:
 - A. 9
 - B. -6
 - C. 2
 - D. 3
 - (vi) H.C.F of $5x^2y^2z^2$ and $30x^3y^2z$ is:
 - A. $5x^2y^2z^2$
 - B. $5x^2y^2z$
 - C. $30x^3y^2z^3$
 - D. $30x^3y^2z$
 - (vii) $x = 5$ is a possible solution of the inequality:
 - A. $x < 0$
 - B. $x + 5 < 0$
 - C. $x + 5 > 0$
 - D. $x - 10 > 0$
 - (viii) The point $(-3, -1)$ lies in the quadrant:
 - A. I
 - B. II
 - C. III
 - D. IV
 - (ix) The midpoint of the line segment joining the points $(-4, 9)$ and $(-4, -3)$ is:
 - A. $(-8, 6)$
 - B. $(-4, 3)$
 - C. $(0, 6)$
 - D. $(0, -6)$
 - (x) A Ray has _____ end points.
 - A. No
 - B. One
 - C. Two
 - D. Infinite
 - (xi) Sum of the adjacent angles of a parallelogram is:
 - A. 90°
 - B. 180°
 - C. 270°
 - D. 360°
 - (xii) In the bisection of right angle, each angle is of:
 - A. 30°
 - B. 45°
 - C. 60°
 - D. 90°
 - (xiii) Right bisection of a line segment means to draw a perpendicular at the _____ of that line segment.
 - A. Any point
 - B. Midpoint
 - C. Two points
 - D. Infinite points
 - (xiv) If hypotenuse of an isosceles right triangle is $\sqrt{2} \text{ cm}$, then each of the other side is of length:
 - A. 2 cm
 - B. $\sqrt{2} \text{ cm}$
 - C. 1 cm
 - D. 4 cm
 - (xv) Altitude of an equilateral triangle from vertex to the opposite side makes an angle of _____ to that side.
 - A. 30°
 - B. 45°
 - C. 60°
 - D. 90°



For Examiner's use only:

Total Marks:

15

Marks Obtained:

[]

— ISA 1999 (L) —



MATHEMATICS SSC-I 18

(Science Group)

28

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Attempt any twelve parts from Section 'B' and any three questions from Section 'C' of the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. Logbook and graph paper will be provided on demand.

SECTION - B (Marks 36)

Q. 2 Attempt any TWELVE parts. All parts carry equal marks.

(12 x 3 = 36)

(i) Let $A = \begin{bmatrix} -1 & 3 \\ 2 & 0 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$, $C = \begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix}$ verify that $A(B-C) = AB-AC$

(ii) If $B = \begin{bmatrix} 3 & -1 \\ 2 & -2 \end{bmatrix}$ then show that $BB^{-1} = I$

(iii) Solve the system of linear equations using matrix inverse method, $x+y=75$, $x-4y=0$

(iv) Simplify $\left(\frac{a^p}{a^q}\right)^{p+q} \left(\frac{a^q}{a^r}\right)^{q+r} + 5(a^p \cdot a^q)^{p+r}$

(v) Solve the following equation for real x and y $(3-2i)(x+yi) = 2(x-2yi) + 2i - 1$

(vi) Prove that $\log_m \left(\frac{m}{n}\right) = \log_m m - \log_m n$

(vii) Use log to find the value of $\frac{83 \times \sqrt[3]{92}}{127 \times \sqrt[3]{246}}$

(viii) Perform the indicated operation and simplify $\frac{x-2}{x^2+6x+9} - \frac{x+2}{2x^2-18}$

(ix) If $5x-6y=13$ and $xy=6$, then find the value of $125x^3 - 216y^3$

(x) Factorize $4x^2+81$

(xi) The polynomial $x^3+lx^2+mx+24$ has a factor $x+4$ and it leaves a remainder of 36 when divided by $(x-2)$. Find the values of l and m .

(xii) Factorize the polynomial by factor theorem $x^3-6x^2+3x+10$

(xiii) Find H.C.F by division method $2x^5-4x^4-6x$, $x^3+x^4-3x^3-3x^2$

(xiv) Find the value of k for which the following expression will become a perfect square. $4x^4-12x^3+37x^2-42x+k$

(xv) Solve the equation $\frac{2}{x^2-1} - \frac{1}{x+1} = \frac{1}{x+1}$, $x \neq \pm 1$

(xvi) Solve the double inequality $-2 < \frac{1-2x}{3} < 1$ where $x \in R$

(xvii) Solve the following pair of equations $x=3y$, $2x-3y=-6$ using table of value of x and y .

(xviii) Find the length of the diameter of the circle having centre at $(-3,6)$ and passing through $P(1,3)$.

SECTION - C (Marks 24)

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

(3 x 8 = 24)

Q. 3 Prove the midpoint of the hypotenuse of a right triangle is equidistant from its three vertices $P(-2,5)$, $Q(1,3)$ and $R(-1,0)$.

Q. 4 Prove that the line segment, joining the midpoints of two sides of a triangle is parallel to the third side and is equal to one half of its length.

Q. 5 Prove that if two sides of a triangle are unequal in length, the longer side has an angle of greater measure opposite to it.

Q. 6 Prove that the internal bisector of an angle of a triangle divides the side opposite to it in the ratio of the lengths of the sides containing the angle.

Q. 7 Construct the triangle ABC . Draw the perpendicular bisectors of its sides and show that they are concurrent. $m\angle A = 45^\circ$, $m\angle B = 30^\circ$, $m\angle C = 105^\circ$, $AB = 5.3cm$

Roll No. _____
Sig. of Candidate. _____

Answer Sheet No. 102

Sig. of Invigilator. _____



COMPUTER SCIENCE SSC-I

(For Hearing Impaired Children) 2019

SECTION - A (Marks 15)

Time allowed: 30 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 30 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) A/an _____ is a set of programs that gives the necessary instructions to the computer, telling it how to operate with the hardware, other software and the user.
 - A. Arithmetic and logical unit
 - B. Central processing unit
 - C. Operating system
 - D. Compiler
- (ii) Which of the following is the first computing device?
 - A. ENIAC
 - B. Mark I
 - C. ABACUS
 - D. UNIVAC
- (iii) Which of the following board is a rectangular circuit board in a computer system?
 - A. Sign board
 - B. Motherboard
 - C. Hard board
 - D. White board
- (iv) GB stands for:
 - A. Gigabyte
 - B. Gigabit
 - C. Grade byte
 - D. Great bus
- (v) Which of the following is a volatile memory?
 - A. ALU
 - B. CPU
 - C. RAM
 - D. ROM
- (vi) Which of the following DOS command is used to clear the screen?
 - A. DIR
 - B. MD
 - C. CD
 - D. CLS
- (vii) Which of the following operating system developed by Microsoft is widely used?
 - A. LINUX
 - B. UNIX
 - C. MAC
 - D. Windows
- (viii) The blank area where user types the text in MS Word is called:
 - A. Slide
 - B. Sheet
 - C. Outlet
 - D. Document window
- (ix) Which of the following option is used for including the bullets, foreign characters mathematical symbols, curly quotes etc?
 - A. Symbol
 - B. Word Art
 - C. Drawing
 - D. Clip Art
- (x) Which of the following software automatically plays, displays or downloads advertisements to a computer usually without user's knowledge?
 - A. Virus
 - B. Worm
 - C. Adware
 - D. Hacker
- (xi) Which of the following type of virus is a computer code sent as an e-mail attachment?
 - A. Software virus
 - B. Email-virus
 - C. Antivirus
 - D. Animal virus
- (xii) Which of the following software is an antivirus software?
 - A. VLX
 - B. OLX
 - C. AVG
 - D. MAPS
- (xiii) What is used for creating decorative effects in MS Word?
 - A. Paragraph formatting
 - B. Text formatting
 - C. Page formatting
 - D. Word Art
- (xiv) The white space between two adjacent lines of text is called:
 - A. Margin
 - B. Alignment
 - C. Line spacing
 - D. Paragraph spacing
- (xv) Which of the following is the shape of bullet placed before each item in the list?
 - A. 1)
 - B. L
 - C. +
 - D. I

For Examiner's use only:

Total Marks:

15

Marks Obtained:



COMPUTER SCIENCE SSC-I
(For Hearing Impaired Children)

20

Time allowed: 1:00 Hours

Total Marks Section B: 20

NOTE: Answer any five questions from Section 'B' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 20)

Q. 2 Answer any FIVE of the following parts in 3 to 4 lines each. Each part carries 4 marks. (5 x 4 = 20)

- (i) What do you understand by word processing?
- (ii) What is a document window?
- (iii) Explain various ways through which security threats spread in computers.
- (iv) What is application software? Name different application software.
- (v) What are single-user and multi-user operating systems?
- (vi) Why is ROM known as a non-volatile memory?
- (vii) What is the difference between analog and digital computers?
- (viii) Define input and output devices.

— TSA 1944 (HIC) —



Roll No. [] [] [] [] [] [] [] []

of Candidate. 1

Answer Sheet No. 2018

of Invigilator.

9th Class فیکلر لودر

ENGLISH COMPULSORY SSC-I
SECTION - A (Marks 15)

Time allowed: 20 Minutes

ENGLISH

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
- (i) Hazrat Muhammad (ﷺ) spent most of his time in solitude and meditation at the age of _____ years.
A. Thirty eight B. Thirty five C. Forty D. Sixty three
 - (ii) Hazrat Asma (R.A) remained steadfast and did not reveal the secret. The underlined word means
A. Truthful B. Firm and resolute
C. Modest D. Prepared for the worst
 - (iii) The Blue Mosque has _____ minarets.
A. Six B. Nine C. Twelve D. Three
 - (iv) The branches were covered with blanket of snow. In this sentence we find an example of:
A. Alliteration B. Personification C. Simile D. Metaphor
 - (v) Helen Keller wrote the book "The World I Live In" in _____.
A. 1908 AD B. 1905 AD C. 1880 AD D. 1968 AD
 - (vi) If I see Aslam, I'll _____ him to dinner tomorrow. Choose the correct form of verb
A. Invite B. Invited C. Have invited D. Inviting
 - (vii) Nobody was there to rescue the child. The underlined word is a/an
A. Indefinite Pronoun B. Reflexive Pronoun
C. Possessive Pronoun D. Personal Pronoun
 - (viii) She gave _____ all the money to the poor and the needy.
A. Out B. Through C. In D. Away
 - (ix) The boy laughs loudly. The underlined word is a/an:
A. Intransitive verb B. Linking verb
C. Transitive verb D. Helping verb
 - (x) The lorry was carrying stolen goods. The underlined word is:
A. Present Participle B. Past Participle
C. Main verb D. Gerund
 - (xi) We have been reading for two hours. What tense is it?
A. Present Perfect Continuous Tense B. Future Perfect Continuous Tense
C. Past Perfect Continuous Tense D. Present Perfect Tense
 - (xii) I ate some rice. The underlined word is a/an:
A. Adjective of Quantity B. Adjective of Number
C. Adjective of Quality D. Demonstrative Adjective
 - (xiii) Most of us take life for granted. It is a/an:
A. Compound sentence B. Complex Sentence
C. Simple sentence D. Compound-Complex sentence
 - (xiv) He was very pleased that you have passed. The underlined clause is a/an.
A. Adverbial clause of Manner B. Adverbial clause of Place
C. Adverbial clause of Time D. Adverbial clause of Reason
 - (xv) Choose the correct spelling:
A. Embellish B. Imbellish C. Embelish D. Emmbellish

For Examiner's use only:

Total Marks:

15

Marks Obtained:

[]

— TSA 1801 (4) —

9th Class FEDERAL BOARD 2018





ENGLISH COMPULSORY SSC-I

2

Total Marks Sections B and C: 60

Time allowed: 2:40 Hours

NOTE: Sections B and C comprise Pages 1-2. Answer all the questions from Sections 'B' and 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 39)

Q. 2 Answer any SIX of the following parts in about 30 to 40 words each. Each part carries 3 marks. (6 x 3 = 18)

- (i) Why did the Holy Prophet (ﷺ) stay in the cave of Hira?
- (ii) What are the qualities of a Patriot?
- (iii) What happens when media is allowed to play its role unchecked?
- (iv) How did Hazrat Asma (R.A) console her grandfather?
- (v) What do the daffodils represent in the poem?
- (vi) What was the ideology of Pakistan in view of the Qaid-e-Azam?
- (vii) Why was a heavy iron chain hung at the entrance of the court?
- (viii) Why did the nurse disagree with the doctor's point of view?

Q. 3 a. Paraphrase any ONE of the following stanzas:

(i) The woods are lovely, dark and deep,

But I have promises to keep,

And miles to go before I sleep,

And miles to go before I sleep.

(ii) I wandered lonely as a cloud

That floats on high o'er vales and hills,

When all at once I saw a crowd,

A host of golden daffodils;

Beside the lake, beneath the trees,

Fluttering and dancing in the breeze.

Read the following stanza carefully and answer the questions given at the end:

Continuous as the stars that shine

And twinkle on the milkyway,

They stretched in never-ending line

Along the margin of a bay:

Ten thousand saw I at a glance,

Tossing their heads in sprightly dance.

Questions:

- (i) How do you compare daffodils with the stars?
- (ii) What is the meaning of the line "Ten thousand saw I at a glance"?
- (iii) Who is the poet of the poem "Daffodils"?

Change the Voice of any FOUR of the following:

- (i) The mason is building the wall.
- (ii) The letter has just been posted.
- (iii) Everyone loves him.
- (iv) My father will write a letter.
- (v) His teacher praised him.
- (vi) The cat will kill the mouse.
- (vii) Manners reveal character.



(03)



(06)

(04)



Write a dialogue between two friends about the upcoming examination.

-OR-

Write a dialogue between a brother and a sister concerning time.

-OR-

- (i) ...
- (ii) ...
- (iii) ...
- (iv) ...
- (v) ...
- (vi) ...
- (vii) ...
- (viii) ...
- (ix) ...
- (x) ...
- (xi) ...
- (xii) ...

- Q. 5 Write a letter to your friend requesting him/her to spend his/her spring holidays with you. (08)
- OR-
- Write a letter to your father describing your illness and recovery. (08)
- Q. 6 Write a paragraph of about 50 to 70 words on the topic "The Qualified-Azam - Our National Hero" (05)
- Q. 7 Translate any EIGHT of the following sentences into English: (08)

SECTION - C (Marks 21)

- b. Provide correct form of Verb of any FIVE of the following sentences: (05)
- (i) He (arrive) yesterday.
- (ii) He (sleep) two hours before I awake him.
- (iii) I (suffer) from fever since Monday.
- (iv) The boy (kick) the football.
- (v) He asked him where he (be) going.
- (vi) Let your parents be (love).
- (vii) Are pens (repair) by you?
- (viii) My cousin has (draw) this picture.
- c. Punctuate and capitalize the following para / line(s): (03)
- Sometimes I have thought that it would be an excellent rule to live each day as if we should die tomorrow



Roll No	Sg of Candidate	Signature	Date	Mark	Question
					(i) ...
					(ii) ...
					(iii) ...
					(iv) ...
					(v) ...
					(vi) ...
					(vii) ...
					(viii) ...
					(ix) ...
					(x) ...
					(xi) ...
					(xii) ...



Answer Sheet No 9A/CLAR 2018

Roll No [] [] [] [] [] [] [] [] [] []



Sg of Candidate: ...

Date: 20

Signature: ...

15

15A 1803



اڈنور (لازمی) ایس ایس سی-۱

وقت: 2:40 گھنٹے

5

کل نمبر حصہ دوم اور ص 60

نوٹ: حصہ دوم اور ص 1-2 پر مشتمل ہے۔ ان سوالات کے جوابات طے شدہ سے ہونا چاہئے۔ آپ کے جوابات صاف اور واضح ہونے چاہئیں۔

حصہ دوم (کل نمبر 34)

سوال نمبر: الف۔ نصاب کی روشنی میں حصہ بیوی میں سے پارا (12) اجزاء کے تین سے چار سطروں تک محدود اجازت لیں: (24=2x2)

- (i) شہر میں کڑوا سنا اچھا منہ کرنا اور ہوا اچھا اور اس کا مفعول کیا تھا؟
- (ii) پہل بہت سے سر سے تاروں سے کیوں بہتا ہے؟
- (iii) مضمون نگار کے دل ہونے پر اس کے والد صاحب نے آئے کس طرح تلخ دہی؟
- (iv) سچ "بہبود ستارے" کے مطابق بیازبی کی خوشگزر کا سبب کیا تھا؟
- (v) بیازبی کے ابا جہڑیاں بڑھ جانے کے لیے کیوں تیار ہو جاتے ہیں؟
- (vi) شیخ جنسن نے فیصلہ عاتے ہوئے انصاف کے اصولوں کو کہاں تک پورا کیا؟
- (vii) کس کا حق ادا کرنا سب سے مقدم ہے۔ بیازبی سے شاعر کی مراد کیا ہے؟
- (viii) امیر تھان کی کوئی اور شایف کے ہاتھ کر کے۔
- (ix) گزار کے بھیجے اور بیازبی کے ہانپنے سے کیا مراد ہے؟
- (x) غزل کے مطابق شاعر کی عمر کیے برس ہوتی ہے؟
- (xi) مرزا غالب نے گلگتے کا سفر کہاں کیا؟
- (xii) بہادر شاہ ظفر کی غزل کے دو مصنف تحریر کریں۔
- (xiii) "زیر لہجہ" کی وضاحت کریں۔
- (xiv) ہجرت کے موقع پر جناب امیر کے ساتھ قرظی نے کیا سلوک کیا؟

(10=5x2)

- ب۔۔ درج ذیل میں سے کوئی سے ایک اجزاء میں لکھیے:
- (i) بیازبی کی تعریف کریں اور ایک مثال دیں۔
 - (ii) مرکب نام سے کیا مراد ہے؟ مثال سے وضاحت کریں۔
 - (iii) مہدی ذیلی کا راز رازت کر تھوں میں اس طرح استعمال کریں کہ معنی واضح ہو جائیں
گراں بہا . . . بہت
 - (iv) ترجمہ جنین غالب ہے۔ خط کی ترکیب تحریر کریں۔
 - (v) ادبی عبارت "انگہا کی تعریف کریں اور ایک مثال دیں۔
 - (vi) درج ذیل الفاظ کے اراضہ جمع لکھیں۔
ریہات . . . قصہ



6. حصص (کل نمبر 26)

(1/2+1/2+1+4=6)

الف۔ "عز و غالب کے اطلاق کو نہایت وسیع سمجھو۔ وہ ہر شخص سے جو ان سے ملے جاتا تھا، بہت کشادہ پیشانی سے ملے تھے۔ ہر شخص ایک دفعہ ان سے ملتا ہے۔ ہمیں ملنے کا شوق رہتا تھا۔ دوستوں کو دیکھ کر باغ باغ ہو جاتے تھے اور ان کی خوشی سے خوش اور غم سے غمیں ہوتے تھے۔ اس لیے ان کے دوست، ہر مذہب اور ملت کے، نہ صرف وہی میں بلکہ تمام ہندوستان میں بے شمار تھے۔ جو خطوط انھوں نے اپنے دوستوں کو لکھے ہیں، ان کے ایک ایک حرف سے ہر وہ محبت، مہم خوار اور پکا گھٹ لگی جاتی ہے۔"

ب۔ "آپ مجھے لو اور ہے جسے ایک خاص مقصد کی خاطر اور وہ مقصد یہ تھا کہ آپ ہوسا لگتی کہتا ہے کہ میں نے ایک غریب اور مطلق معذور کو اپنے ہاں پناہ دی ہے۔ اب یہ جو جو کام ہمارے گھس گھس پر پڑتی کا نتیجہ ہے۔ میں نے اس کی صلاحیتوں کو زندہ رکھا ہے۔ اور نہ یہ کب کی قسم ہو چکی ہوگی۔ جس طرح بڑی بڑی کانوں کے دروازوں پر انسانی نیکروں کو نہایت خوبصورت اور شگفتہ لباس پہنا کر انہیں الماریوں کے اندر سجایا جاتا ہے تاکہ لوگ ان حسین و جمیل جسموں کو دیکھ کر دکھلاؤں کے اہل ذوق اور ان کی شان و شوکت سے مرعوب ہو جائیں۔"

سوال نمبر ۳۔ شاعر اور نظم کا حوالہ دیتے ہوئے کسی ایک نظم ہارسے کی تشریح کیجیے:

(1/2+1/2+2+2=5)

الف۔ سیا بے شک آئی دہنے سے ٹو ہے
ب۔ شامخ نمبرہ سے سبیل اندوز ہو کر ٹو
کرتھ میں دہنے کے پہلوں کی ٹو ہے
تا آشنا ہے قاعدہ روزگار سے
نشئی ہم نے طوطی و بلبل کی باتیں
لمت کے ساتھ رابطہ استوار رکھ
تیرا تذکرہ ہے، تری کھٹکھو ہے
بیات وہ شجر سے، تمہید بہار رکھ

سوال نمبر ۴۔ شاعر کا حوالہ دیتے ہوئے کسی ایک غزل پر تری کی تشریح کیجیے:

(1+2+2=5)

الف۔ بلبل کو باغیاں سے نہ سناؤ سے بگڑے
ب۔ دل تازاں تجھے ہوا کیا ہے
قسمت میں قید گھسی تھی فصل بہار میں
آخر اس دور کی دوا کیا ہے
ان حسرتوں سے کہ دو گئیں اور جا سئیں
مہم ہیں مشتاق اور وہ بیزار
آئی جگہ کہاں ہے دلِ راندار میں
یا اگلی! یہ ماجرا کیا ہے

سوال نمبر ۵۔ گلاب اور گلاب عمار کے درمیان ہر گلابی کے موضوع پر مکالمہ تحریر کریں۔

(5)

(ب)
سکول میں منعقدہ جشن آزادی کی تقریب کی روداد تحریر کریں۔

سوال نمبر ۶۔ چھوٹے بھائی کو دیکھ کر بچ بولے اور چھوٹے سے بچنے کی تلقین کریں۔

(5)

—1SA 1803—



Roll No. [] [] [] [] [] []

Answer Sheet No. [] [] [] [] [] []



Sig of Candidate: [] [] [] [] [] []

Sig of Invigilator: [] [] [] [] [] []

اسلامیات (لازمی) ایس ایس سی-۱

حصہ اول (کل نمبر: 10)

وقت: 15 منٹ

نوٹ: حصہ اول کے جوابات پورا پورے دھیان سے لکھنے ہوں گے۔ ان کو اپنے جواب میں لکھنے کے لیے گہرا دھیان رکھنا ہوگا۔ ہر سوال کے جوابات میں سے ایک جواب لکھنا ہے۔

- سوال نمبر ۱: دیکھ کر لکھو کہ مندرجہ ذیل الفاظ کا کیا مطلب ہے۔
- (i) فطرت کے سوا ہیں: الف۔ سرور، ب۔ منزل، ج۔ ناز، د۔ لڑائی
 - (ii) نیکوئی کے سوا ہیں: الف۔ بیخیاں، ب۔ کھانیاں، ج۔ کھاری جان کا لے، د۔ رفتاریے ایس اس میں آئے
 - (iii) ہاتھوں اور پیروں: الف۔ پیروں اور پتھوں پر، ب۔ ہاتھوں اور پتھوں پر
 - (iv) پیشانی کا مطلب ہے: الف۔ سانس کی گلیے، ب۔ اسانس کی گلیے، ج۔ سرور انڈل کے مطابق، د۔ ایک دوسرے کے دوست ہیں۔
 - (v) سرور انڈل کے مطابق: الف۔ ٹوٹ، ب۔ ٹوٹ، ج۔ کھار، د۔ کھار
 - (vi) حدیث کے مطابق سب سے بڑا دعا: الف۔ استغفار کرنا، ب۔ روقی پانچا، ج۔ قرآن مجید کا موضوع، د۔ کائنات
 - (vii) قرآن مجید کو کجی لکھنے کے لیے کہا گیا ہے: الف۔ راجھا، ب۔ مہمیں، ج۔ قرآن مجید کے مطابق، د۔ اللہ سے محبت کرتے ہیں۔
 - (viii) قرآن مجید کے مطابق: الف۔ موسیٰ، ب۔ کفار، ج۔ نبی کریم ﷺ، د۔ دینے والے علم کی دھارا کا کرتے تھے۔
 - (ix) الف۔ عزت، ب۔ رزق، ج۔ فطرت، د۔ حکومت





وقت: 2:15 گھنٹے
حصہ دوم اور سوم کے سوالات کے جوابات محدود سے ملنا چاہئے۔ حصہ دوم کے تمام سوالات اور حصہ سوم سے کوئی سے دو (02) سوال
مطلوبہ ہیں۔ ایکسٹرا شیٹ (Sheet-B) طلب کرنے پر سہولت دینے کی آپ کے جوابات حاصل اور پیش ہونے چاہئیں۔

حصہ دوم (کل نمبر 24)

(3x3=9)

سوال نمبر ۱: مندرجہ ذیل قرآنی آیات میں سے کسی کن آیات کا بار اور ترجمہ کیجیے:

- (i) ذٰلِكَ بِأَنَّهُمْ شَاقُّوا اللَّهَ وَرَسُولَهُ وَ مَنْ يُشَاقِقِ اللَّهَ وَرَسُولَهُ فَإِنَّ اللَّهَ شَدِيدُ الْعِقَابِ ﴿١﴾
- (ii) وَ إِذْ قَالُوا اللَّهُمَّ إِنَّ كُنَّا نَحْنُ الْخَاطِئُونَ فَاصْبِرْ عَلَيْنَا حِجَابَكَ مِنَ السَّمَاءِ أَوْ انزِلْنَا بِعَذَابِكَ عَلَيْنَا
- (iii) الَّذِينَ عَاهَدْنَا مِنْهُمْ ثُمَّ بَدَّلُوا حَتْمًا بَيْنَهُمْ فِي كُلِّ مَسْجِدٍ وَ هُمْ لَا يَتَّقُونَ ﴿٢﴾
- (iv) مَا كَانَ يَتَمَنَّى أَنْ يُكُونَ لَهُ الْاُنْزَى خَشْيَةَ يُغْنِيهِ فِي الْاَرْضِ فُتُوذُونَ عَوَضَ الدُّنْيَا وَاللَّهُ يُؤْتِيهِ الْاُخْرَةَ وَاللَّهُ عَزِيزٌ حَكِيمٌ ﴿٣﴾
- (v) وَالَّذِينَ كَفَرُوا مِنْهُمْ لَعْنَةُ اللَّهِ وَلَعْنَةُ الْعَرَبِ وَالَّذِينَ كَفَرُوا مِنْهُمْ لَعْنَةُ اللَّهِ وَلَعْنَةُ الْعَرَبِ وَالَّذِينَ كَفَرُوا مِنْهُمْ لَعْنَةُ اللَّهِ وَلَعْنَةُ الْعَرَبِ

(2+2+1=5)

سوال نمبر ۲: مندرجہ ذیل میں سے کسی ایک حدیث کا ترجمہ اور تفسیر کیجیے۔

(i) حَدِيثُهُمْ عَنْ تَعْلَمَةِ الْقُرْآنِ وَعَلَمَتِهِ

(ii) لَيْسَ بَيْنَنَا وَبَيْنَ لَوْ تَرَحُّمُ صَفِيٍّ وَنَا وَلَمْ يُؤْتِرْ كَيْفِيَّتَنَا

(5x2=10)



- سوال نمبر ۳: مندرجہ ذیل میں سے کوئی سے باقی سوالات کے مختصر جوابات تحریر کیجیے۔
- (i) سورہ انفال میں کفار کو خطاب کرتے ہوئے کیا نصیحت کی گئی ہے؟
 - (ii) سورہ انفال میں کفار کی کیا لعنت بیان ہوئی ہے؟
 - (iii) سورہ انفال میں فرعون اور آل فرعون کی پاکت اور بر باد کی کیا اسباب بیان کیے گئے ہیں؟
 - (iv) رشتہ کی خدمت میں کسی ایک حدیث کا ترجمہ تحریر کیجیے۔
 - (v) رسول اللہ ﷺ کی اطاعت کے سلسلے میں کسی ایک آیت کا ترجمہ تحریر کیجیے۔
 - (vi) حج و عمرہ میں حضرت عثمان کا کارنامہ بیان کیجیے۔
 - (vii) سورہ انفال میں اللہ تعالیٰ نے جنگی قیدیوں کے بارے میں کیا فرمایا ہے؟

حصہ سوم (کل نمبر 16)

(2x8=16)

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

سوال نمبر ۴: خود کو حفظ قرآن پر توجہ دلاؤ لکھیے۔

سوال نمبر ۵: ذکوہ کا مفہوم بیان کریں۔ نیز بتائیے کہ ذکوہ کو ادا کرنے والوں کو اللہ تعالیٰ نے کیا عطا فرمایا ہے؟

سوال نمبر ۶: قرآن وحدیث کی روشنی میں علم کی اہمیت بیان کیجیے۔



Roll No. _____

Sig. of Candidate. _____

Answer Sheet No. _____

Sig. of Invigilator. _____

9th CLASS

PAKISTAN STUDIES SSC-I

SECTION - A (Marks 10)

Time allowed: 15 Minutes

PAKISTAN STUDIES

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 15 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) When did Urdu Hindi controversy start?

A. 1861 AD	B. 1863 AD
C. 1865 AD	D. 1867 AD
- (ii) State Bank of Pakistan was inaugurated on:

A. 1st July 1948 AD	B. 5th May 1948 AD
C. 14th August 1949 AD	D. 1st October 1949 AD
- (iii) The highest peak of Kohistan-e-Hindu Kush is:

A. Malika Parbat	B. Tirich Mir
C. Nanga Parbat	D. Everest
- (iv) When did the Quaid-e-Azam join Muslim League?

A. 1913 AD	B. 1915 AD
C. 1917 AD	D. 1919 AD
- (v) Shahrah-e-Resham connects Pakistan with China through:

A. Khunjerab Pass	B. Khyber Pass
C. Tochi Pass	D. Gomal Pass
- (vi) The Objectives Resolution was passed in:

A. 1930 AD	B. 1940 AD
C. 1946 AD	D. 1949 AD
- (vii) East India Company finally came to an end in:

A. 1857 AD	B. 1858 AD
C. 1757 AD	D. 1860 AD
- (viii) The growth of an economy from backward to advanced economy is known as:

A. Backwardness	B. Employment
C. Economic development	D. Balance of payments
- (ix) The national animal of Pakistan is:

A. Chakor	B. Markhor
C. Deer	D. Lion
- (x) General Muhammad Ayub Khan imposed Martial law in the country in:

A. 1956 AD	B. 1957 AD
C. 1958 AD	D. 1969 AD

For Examiner's use only:

Total Marks:

Marks Obtained:

10



PAKISTAN STUDIES SSC-I

Time allowed: 2:15 Hours

Total Marks Sections B and C: 40

NOTE: Answer any Eight 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.

SECTION - B (Marks 24)

- Q. 2 Answer briefly any eight of the following questions. (8 x 3 = 24)
- What is meant by 'Toheed'?
 - Give the location and area of Pakistan.
 - Write three causes of land pollution.
 - Which areas of Muslim majority, India got as a result of unjust division by Radcliffe?
 - What did Allama Iqbal mention in his famous Allahabad address?
 - What is meant by Union Council and Union Committee?
 - Write three points of Wavell plan.
 - What is meant by Two Nation Theory in the historical perspective of the Sub-continent?
 - What do you mean by Economic Development?
 - What were the Islamic Provisions of 1956 constitution?
 - Write three proposals of Cripps Mission?

SECTION - C (Marks 16)

- Note: Attempt any TWO questions. All questions carry equal marks. (2 x 8 = 16)
- Q. 3 Narrate the main points of 3rd June 1947 plan?
- Q. 4 Describe the significance of forests?
- Q. 5 Elaborate the ideology of Pakistan in the light of the pronouncements of the Quaid-e-Azam?

(8x3=24)



حصہ سوم (کل نمبر 24)

- سوال نمبر 3: درج ذیل میں سے کوئی سے آٹھ سوالات کے مختصر جوابات تحریر کریں۔
- توحید سے کیا مراد ہے؟
 - پاکستان کا محل وقوع اور رقبہ بیان کریں۔
 - زمین آلودگی کی کوئی تین وجوہات لکھیں۔
 - ریڈ کلف کی غیر مصدقہ تقسیم سے کون کون سے مسلم اکثریت والے علاقے بھارت کے پاس چلے گئے؟
 - غلام اسحاق علی نے اپنے خطبہ آج آپاد میں کیا کہا؟
 - یونین کونسل اور یونین کونسل سے کیا مراد ہے؟
 - دبجل پلان کے کوئی سے تین نکات لکھیں۔
 - پری مشنر کے تاریخی تاثر میں دو قوی نظریے سے کیا مراد ہے؟
 - معاشرتی ترقی سے کیا مراد ہے؟
 - 1956ء کے آئین کی اسلامی دہلیات لکھیں۔
 - کرپس مشن کی تین تجاویز لکھیں۔

حصہ سوم (کل نمبر 16)

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

سوال نمبر 3: 3 جون 1947ء کے منصوبے کے اہم نکات بیان کریں۔

سوال نمبر 4: جنگلات کی اہمیت بیان کریں۔

سوال نمبر 5: قائد اعظم کے ارشادات کی روشنی میں نظریہ پاکستان کی وضاحت کریں۔



Roll No.

Sig. of Candidate.

Answer Sheet No.

Sig. of Invigilator: 9th Class

PHYSICS SSC-I SECTION - A (Marks 12)

Physics
2018

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- The Least Count of a measuring cylinder is:
A. 1m³ B. 0.01mL C. 0.1mL D. 1mL
- Significant figures in a number are:
A. All the accurately known digits and the first doubtful digit
B. All the digits
C. All the accurately known digits
D. All the accurately known digits and all the doubtful digits
- When an object is moving with uniformly changing speed then the slope of the speed-time graph determines the magnitude of:
A. Displacement B. Velocity C. Acceleration D. Momentum
- A string is stretched by two equal and opposite forces F Newton each. The tension in the string is:
A. Zero B. $2F$ Newton C. F Newton D. $\frac{1}{2}F$ Newton
- A body is said to be in equilibrium if:
A. Its velocity is not changing B. Its acceleration is uniform
C. Its velocity is changing D. Its acceleration is not uniform
- Moon completes its one revolution around the earth in:
A. 27.4 days B. 28.3 days C. 655.2 hours D. 3.96 weeks
- If the mass of a body is halved and the velocity is doubled, then its kinetic energy will be:
A. $\frac{1}{2}mv^2$ B. mv^2 C. $2mv^2$ D. $\frac{1}{4}mv^2$
- SI-Unit for the thermal conductivity of a solid is:
A. $Jkg^{-1}K^{-1}$ B. JK^{-1} C. K^{-1} D. $Wm^{-1}K^{-1}$
- How much heat energy is required to melt 250g of ice? (Latent heat of fusion of ice is $336000Jkg^{-1}$)
A. 84000J B. 84000000J C. 1344J D. 1344000J
- Pressure of a liquid depends on:
A. Depth in the liquid B. Depth and density of the liquid
C. Depth and mass of the liquid D. Density and weight of the liquid
- If 100N force moves a body of mass 3kg through a distance of 3m then work done will be:
A. 900J B. 600J C. 300J D. 100J
- The value of the 'gravitational field strength' of the Earth at a distance R (where R is the radius of the Earth) from the surface of the Earth will be:
A. $5Nkg^{-1}$ B. $10Nkg^{-1}$ C. $2.5Nkg^{-1}$ D. $1.1Nkg^{-1}$

For Examiner's use only:

Total Marks:

Marks Obtained:

12



PHYSICS SSC-I (12)

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

- Q. 2 Answer any ELEVEN parts. The answer to each part should not exceed three to four lines. (11 x 3 = 33)
- On closing the stud and spindle of a screw gauge, the zero of the circular scale is behind the index line and 8th division of the circular scale coincides with the index line. There are 50 divisions on the circular scale and the distance between two consecutive threads on the spindle is 0.5mm. Find its zero error and zero correction.
 - Define Atomic Physics and Nuclear Physics.
 - A cyclist competes half round of a circular track of diameter 636m in 1.5 minutes. Find his velocity.
 - Define inertia. Describe the factor on which it depends.
 - How much time is required to change 22Ns momentum by a force of 20N?
 - Can a small child play with a fat child on the see-saw? Briefly explain how?
 - On the surface of the earth, the weight of a boy is 400N but on a mountain peak his weight is 360N. Calculate the value of 'g' on the mountain peak.
 - State the law of gravitation.
 - Make a flow-diagram of energy conversion for a hydroelectric power station.
 - Describe Hooke's Law.
 - Describe the factors on which upthrust of a liquid depends.
 - Why are a large number of slots made in radiators?
 - Convert 1gcm^{-3} into kgm^{-3} .
 - Why does the temperature of a solid substance not increase during its fusion process?
 - Differentiate between boiling and condensation.
 - How does evaporation differ from vaporization?



SECTION - C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3 a. i. Draw distance-time graph for an object moving with variable speed. (2.5)
 ii. How can the slope of the graph be determined? (1.5)
 iii. What information does the slope provide? (0.2)
- b. State and explain Newton's first law of motion. (2+2)
- Q. 4 a. Define three states of equilibrium. Explain these states with reference to the centre of gravity. (2+2+2)
 b. A motor boat moves at a steady speed of 4ms^{-1} . Water resistance acting on it is 4000N. Calculate the power of its engine. (0.4)
- Q. 5 a. Define Pascal's Law and name any four working systems (machines) of its application. (1+2)
 b. What is a bimetal strip? Name any two instrument where bimetal strip is used. (1+1)
 c. How much heat is lost in an hour through a glass window measuring 2.0m by 2.5m when inside temperature is 25°C and that of outside is 5°C , the thickness of glass is 0.8cm and the value of K for glass is $0.8 \text{Wm}^{-1}\text{K}^{-1}$. (0.5)



Roll No. [] [] [] [] [] [] [] [] [] []
 Sig. of Candidate, _____

(13) Answer Sheet No. _____
 Sig. of Invigilator, 915 CLASS

CHEMISTRY SSC-I CHEMISTRY
 SECTION - A (Marks 12) 2018

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.
- The empirical formula for caffeine ($\text{C}_x\text{H}_y\text{N}_z\text{O}_2$) is:
 A. $\text{C}_7\text{H}_7\text{N}_3\text{O}$ B. $\text{C}_8\text{H}_9\text{N}_3\text{O}$ C. $\text{C}_7\text{H}_7\text{NO}$ D. $\text{C}_7\text{H}_7\text{NO}_2$
 - How many atoms are there in 1.25 moles of Zinc?
 A. 6.53×10^{23} Zn atoms B. 7.53×10^{23} Zn atoms
 C. 8.53×10^{23} Zn atoms D. 9.53×10^{23} Zn atoms
 - Identify the number of electrons that f-subshell can accommodate.
 A. 2 B. 6 C. 10 D. 14
 - Keeping in view Auf Bau Principle, identify the energy level which the electrons fill first.
 A. 2P B. 2S C. 1S D. 3S
 - The electronic configuration $1s^2 2s^2 2p^6 3s^2$ belongs to:
 A. $_{14}^{30}\text{Si}$ B. $_{12}^{24}\text{Mg}$ C. $_{13}^{27}\text{Al}$ D. $_{18}^{40}\text{Ar}$
 - Identify the element which has the largest atomic radius.
 A. Mg B. Ca C. Cs D. Fr
 - Which of the element of the 3rd period has highest electronegativity?
 A. Na B. P C. S D. Cl
 - Identify the covalent compound.
 A. KF B. H_2O C. MgO D. NaCl
 - How many moles of Na atoms are present in 2.3 g of Na?
 A. 0.15 moles B. 1.5 moles C. 0.1 moles D. 1 mole
 - The oxidation state of B in H_2BO_3 is:
 A. +2 B. +4 C. +3 D. +5
 - Galvanizing is:
 A. Coating with Cr B. Coating with Cu
 C. Coating with Zn D. Coating with Sn
 - Consider the following reaction: $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$ In this reaction CuO behaves as:
 A. Electrolyte B. Catalyst C. Oxidizing agent D. Reducing agent



For Examiner's use only:

Total Marks: [12]
 Marks Obtained: []



CHEMISTRY SSC-I

14

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

Q. 2 Answer any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)

- Determine the molecular mass of:
 - $(\text{NH}_4)_2\text{CO}_3$
 - NH_4NO_3
 - $\text{C}_6\text{H}_{12}\text{O}_6$
- Define heavy water. Give the comparison of ordinary water and heavy water
- What is Carbon dating? How does Carbon - 14 dating work?
- Define periodic table. What is its base?
- Define atomic size. Interpret trends in atomic size across groups and periods.
- Draw Lewis electron cross and dot structures for the following molecules:
 - CCl_4
 - SiCl_4
 - O_2
- Enlist the main postulates of Kinetic Molecular Theory.
- The boiling point of water on the top of Mount Everest is 70°C while in Murree it is 98°C . Give the reason.
- Why tin plated steel is used to make food cans?
- Sketch out an electrolytic cell, label it and indicate the direction of flow of electrons.
- Arrange the following in order of increasing acid strength: HCl , HI , HBr and HF
- With the help of chemical reaction prove how breathing equipment keeps sea divers alive under water surface?
- Define oxidation and reduction in terms of loss and gain of electrons. Illustrate the concepts with the help of examples.
- Differentiate with the help of suitable examples:
 - Atom and ion.
 - Molecular ion and free radical.
- How can oil tanks be prevented from corrosion? Support your answer with diagram and an example.



SECTION - C (Marks 20)

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

- Q. 3 a. Make Bohr's models for the following elements: (2 x 10 = 20)
- Potassium (${}_{19}^{39}\text{K}$)
 - Silicon (${}_{14}^{28}\text{Si}$)
 - Argon (${}_{18}^{40}\text{Ar}$)
- (06)
- b. State postulates of Dalton's atomic theory. What is the basic contribution of this theory for chemical science. (04)
- Q. 4 a. Define ionic bond. Use electron dot and cross model to write the equation for the formation of an ionic compound. (06)
- b. What is hydrogen bonding? Explain hydrogen bonding in water by utilizing electron dot and cross structure. (06)
- Q. 5 a. What is corrosion? Explain corrosion of iron with the help of chemical equation. (04)
- b. Sodium Chloride and Glucose both are soluble in water but the solubility of Sodium Chloride (NaCl) is greater than glucose. Why? Explain (05)

— 15A 1808 (L) —



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Sig. of Candidate. _____

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Answer Sheet No. _____
Sig. of Invigilator. 9th Class

BIOLOGY SSC-I

SECTION - A (Marks 12) BIOLOGY

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- Which of the following contains unicellular organization?
 - Mustard plant
 - Human
 - Euglena
 - Frog
- Who first time observed plasmodium in the malarial patient?
 - Laveran
 - A.F.A. King
 - Ronald Ross
 - Aristotle
- Which animal has NOT become extinct in Pakistan?
 - Lion
 - Asiatic Cheetah
 - Marcopolo sheep
 - Tiger
- Which of the following is correct for mitosis:
 - Removal of chromosomes
 - Chromosomes number remains same
 - Reduction of chromosomes
 - Increase in number of chromosomes
- A new organism is observed by a biologist; its characters are eukaryotic multicellular heterotrophy with multicellular sex organs and secretion of digestive enzymes on the food for internal digestion. To which kingdom does this organism belong?
 - Animalia
 - Plantae
 - Fungi
 - Protista
- When a plant cell is placed in a hypotonic solution, its vacuole increases in size due to:
 - Plasmolysis
 - Osmosis
 - Turgor pressure
 - Diffusion of solute
- Change in pH can alter the active site by affecting the:
 - ionization of amino acid
 - Shape of the substrate
 - ionization of cofactor
 - ionization of coenzyme
- The major energy currency of all type of cells is:
 - DNA
 - RNA
 - ATP
 - Glucose
- Which is NOT the accessory pigment for photosynthesis?
 - Chlorophyll a
 - Chlorophyll b
 - Carotenoids
 - Melanin
- Which of the following vitamins is required for the formation of collagen?
 - Vitamin A
 - Vitamin B
 - Vitamin C
 - Vitamin D
- Process of conversion of simple absorbed food into complex compounds that become part of body is called as:
 - Digestion
 - Assimilation
 - Ingestion
 - Absorption
- Granulocyte is a type of white blood cells that contain granular cytoplasm. Which of the following is NOT the granulocyte?
 - T lymphocyte
 - Eosinophils
 - Neutrophils
 - Basophils



For Examiner's use only:

Total Marks: _____

Marks Obtained: _____

12

— 15A 1810 (L) —



BIOLOGY SSC-I

Total Marks Sections B and C: 53

Time allowed: 2:40 Hours

NOTE: Answer any eleven 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.

SECTION - B (Marks 33)

Q. 2 Attempt any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)

- (i) Define the following a. Species b. Population c. Community
(ii) Write the name of host organism and disease of the following vectors: a. Female Anopheles b. Culex c. Aedes
(iii) Enlist three observations made by A.F.A King.
(iv) Five kingdom system of classification of Robert Whittaker was modified by Margulis and Shawartz. What are the bases for this system of classification?
(v) Draw a labeled structure of fluid - mosaic model of cell membrane.
(vi) What is the meristematic tissue? What are the types of meristematic tissues? Write down their location.
(vii) a. What is necrosis? b. What are the causes of necrosis? c. When does necrosis occur in a cell?
(viii) Write down the discoveries of following scientists: a. Oscar Hertwig b. Waither Flemming c. Thomas Hunt Morgan
(ix) Draw a labeled graph to show the working of an enzyme in lowering the activation energy of a chemical reaction.
(x) Write down major steps of Calvin cycle.
(xi) Describe the process of lactic acid fermentation.
(xii) What are the photosynthetic pigments? Write down their role in the process of photosynthesis.
(xiii) Describe the role of potassium ions in the opening and closing of stomata.
(xiv) How does human heart work as double pump?
(xv) Differentiate between the atherosclerosis and arteriosclerosis.

SECTION - C (Marks 20)

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

- Q. 3 a. Define myocardial infarction. Give its causes, symptoms and treatment.
b. Discuss the electron transport chain of respiration. (01+02+02+02) (03)
Q. 4 a. Liver is the largest gland in human body. It plays important role in digestion. How does it help in digestion? Also write down other important roles of liver.
b. Differentiate between cytokinesis in plant and animal cells. (02+04) (04)
Q. 5 a. Differentiate between diffusion, facilitated diffusion and osmosis.
b. Write down principles of cell theory. (02+02+02) (03)
c. Give scientific names of Star fish and House Crow. (0.5+0.5)



Roll No. 17

Sig. of Candidate.

Answer Sheet No. 9th CLASS

Sig. of Invigilator.

MATHEMATICS SSC-I SECTION - A (Marks 15) MATH

2018

Time allowed: 20 Minutes
Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) A matrix is skew symmetric if: A. A' = A B. A' = -A C. (A')' = A D. (A')' = -A
(ii) Real part of 2ab(i + i^2) is: A. 2ab B. -2ab C. 2abi D. -2abi
(iii) If 10^2 = 100 then: A. 2 = log_10 100 B. 2 = log_100 10 C. 10 = log_1 100 D. 100 = log_1 10
(iv) (a^2 - b^2) / (a - b) is equal to: A. (a^2 - ab + b^2) B. (a^2 + ab + b^2) C. a^2 + b^2 D. a^2 - b^2
(v) Factors of x^2 - x - 6 are: A. x + 1, x - 6 B. x - 2, x - 3 C. x - 1, x + 6 D. x + 2, x - 3
(vi) Product of two algebraic expression is equal to: A. H.C.F + L.C.M B. H.C.F - L.C.M C. H.C.F / L.C.M D. H.C.F x L.C.M
(vii) x = 0 is a solution of the inequality: A. x > 0 B. 3x + 5 < 0 C. x + 2 < 0 D. x - 2 < 0
(viii) Which ordered pair satisfy the equation y = 2x A. (1,2) B. (2,1) C. (2,2) D. (0,1)
(ix) Midpoint of the points (2,-2) and (-2,2) is: A. (2,2) B. (-2,-2) C. (0,0) D. (1,1)
(x) Two lines can intersect at _____ points. A. One B. Two C. Three D. Infinite
(xi) If two opposite sides of a quadrilateral are congruent and parallel, then it is a: A. Square B. Rectangle C. Parallelogram D. Triangle
(xii) Bisect means to divide into _____ equal parts. A. One B. Two C. Three D. Four
(xiii) Perpendicular to a line form an angle of: A. 30 degrees B. 60 degrees C. 90 degrees D. 180 degrees
(xiv) If the hypotenuse of an isosceles right angled triangle is sqrt(2) cm then each of the other side is: A. 1cm B. 2cm C. 3cm D. 4cm
(xv) The _____ altitudes of an isosceles triangle are congruent. A. One B. Two C. Three D. Four

For Examiner's use only:

Total Marks:

Marks Obtained:

15

-1SA 1809 (L)-





MATHEMATICS SSC-I
(Science Group)

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Attempt any twelve parts from Section 'B' and any three 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. Logbook and graph paper will be provided on demand.

SECTION - B (Marks 36)

Q. 2 Attempt any TWELVE parts. All parts carry equal marks. (12 x 3 = 36)

- (i) If $A = \begin{bmatrix} 1 & 1 \\ 2 & 0 \end{bmatrix}$ then verify that $A - A'$ is skew symmetric.
- (ii) Two sides of a rectangle differ by 3.5cm and perimeter of rectangle is 67cm. Find the dimensions of rectangle by using 'Cramer's rule'.
- (iii) If $A = \begin{bmatrix} 4 & 0 \\ -1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} -4 & -2 \\ 1 & -1 \end{bmatrix}$ then verify that $(AB)^{-1} = B^{-1}A^{-1}$
- (iv) Simplify $\sqrt{\frac{(216)^{\frac{2}{3}} \times (25)^{\frac{1}{2}}}{(0.04)^{\frac{3}{2}}}}$
- (v) Calculate $z - \bar{z}$ if $z = \frac{4 - 3i}{2 + 4i}$
- (vi) Find the value of 'x' if $\log_{8m} 8 = \frac{x}{2}$
- (vii) Use Log to find the value of $\frac{(438)^2 \sqrt{0.056}}{(388)^4}$
- (viii) Reduce to the lowest form $\frac{9x^2 - (x^2 - 4)^2}{4 + 3x - x^2}$
- (ix) Solve the inequality $3x - 2 < 2x + 1 < 4x + 17$
- (x) Solve following pair of equations graphically $2x + y = 0$ and $x + 2y = 2$
- (xi) Simplify $\frac{2}{\sqrt{5} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{2}} - \frac{3}{\sqrt{5} + \sqrt{2}}$
- (xii) Solve $\frac{3 - 5x}{4} = \frac{1}{3} = \frac{2}{3}$
- (xiii) Verify that the points $A(0, 7)$, $B(3, -5)$, $C(-2, 15)$ are collinear.
- (xiv) Factorize $(x + 2)(x + 3)(x + 4)(x + 5) - 15$
- (xv) Determine the value of 'k' if $p(x) = kx^2 + 4x^2 + 3x - 4$ and $q(x) = x^2 - 4x + k$ leaves the same remainder when divided by $x - 3$
- (xvi) Factorize by factor theorem $x^3 + 5x^2 - 2x - 24$
- (xvii) Find the H.C.F by division of $x^4 + x^3 - 2x^2 + x - 3$; $5x^3 + 3x^2 - 17x + 6$
- (xviii) Find square root of $(x^2 + 8x + 7)(2x^2 - x - 3)(2x^2 + 11x - 21)$

SECTION - C (Marks 24)

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

- Q. 3 Prove that mid-point of the hypotenuse of a right angled triangle is equidistant from its three vertices $P(-2, 5)$, $Q(1, 3)$ and $R(-1, 0)$
- Q. 4 Any point equidistant from the end points of a line segment is on the right bisector of it.
- Q. 5 In a correspondence of two triangles, if three sides of one triangle are congruent to the corresponding three sides of the other, then the two triangles are congruent.
- Q. 6 If the square of one side of a triangle is equal to the sum of the squares of the other two sides then the triangle is a right angled triangle.
- Q. 7 Construct the triangle PQR. Draw their altitudes and show that they are concurrent.
 $m\overline{RP} = 3.6\text{cm}$, $m\angle Q = 30^\circ$, $m\angle P = 105^\circ$



Roll No.

Sig. of Candidate. _____

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Answer Sheet No. 9th CLASS

Sig. of Invigilator. _____

COMPUTER

COMPUTER SCIENCE SSC-I
SECTION - A (Marks 12)

(Old Syllabus)

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) An Assembler is a/an:

A. Low-level language	B. System Software
C. Application Software	D. Translating Machine
- (ii) Transistor was invented in:

A. 1948 AD	B. 1947 AD	C. 1950 AD	D. 1952 AD
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- (iii) RAM of a computer is a:

A. Permanent storage	B. Secondary Memory
C. Primary storage	D. Non-Volatile Memory
- (iv) Which of the following is NOT a semiconductor memory?

A. ROM	B. RAM	C. PROM	D. Secondary Memory
--------	--------	---------	---------------------
- (v) Space bar on a keyboard is a part of the:

A. Alpha Numeric Keypad	B. Numeric Keypad
C. Function Keys editing keys	D. Screen Navigation and editing keys
- (vi) The numbers of tracks in one cylinder of hard disk with two platters is:

A. 4	B. 16	C. 8	D. 32
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- (vii) Which of the following is NOT an executable command?

A. CLS	B. REM	C. REN	D. COPY
--------	--------	--------	---------
- (viii) Which of the following is DOS internal command?

A. ERASE	B. EDIT	C. DELTREE	D. SYS
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- (ix) The command is NOT present on edit menu of MS-Word:

A. Font	B. Go To	C. Find	D. Ctrl + Z
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- (x) A textbox is a type of:

A. Command box	B. Menu box	C. List box	D. Dialog box
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- (xi) By default, MS Word automatically saves your document after every:

A. 5 minutes	B. 10 minutes	C. 15 minutes	D. 30 minutes
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- (xii) Pressing Ctrl + Shift + A causes:

A. To select whole document.	B. To highlight the selected text
C. To capitalize the selected text.	D. Office assistance to appear



For Examiner's use only:



Total Marks: 12

Marks Obtained:

ISA 1811



COMPUTER SCIENCE SSC-I

20

Time allowed: 2:40 Hours

Total Marks Sections B and C: 43

NOTE:- Answer any nine 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.

SECTION - B (Marks 27)

Q. 2 Answer any NINE parts from the following. All questions carry equal marks. (9 x 3 = 27)

- (i) Describe briefly PAN networking.
- (ii) List the advantages of ring topology.
- (iii) Give any three common symptoms of infected computers by malware attacks.
- (iv) Why is operating system important software for a computer? Give any three reasons.
- (v) Define Real Time System.
- (vi) What is meant by CDMA?
- (vii) State any three problems which may occur if peer-to-peer network is used for a large number of users in a large organization.
- (viii) Compare Macintosh OS and Linux OS.
- (ix) Write down a brief note on Asynchronous transmission.
- (x) Briefly describe the page orientation in MS-Word program.
- (xi) What is Inpage Urdu editor?
- (xii) Differentiate between attenuation and amplification.
- (xiii) What is network architecture? Name its different types.



SECTION - C (Marks 16)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 8 = 16)

Q. 3 Discuss any four output devices. (2+2+2+2)

Q. 4 Write a note on the following: (2+2+2+2)

- | | |
|-----------------|----------------|
| (i) Router | (ii) Hyperlink |
| (iii) Bluetooth | (iv) ISDN |

Q. 5 Define computer ethics and write down some important moral guidelines for ethical use of computer technology. (2+6)