ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

ENGLISH LANGUAGE

(ENGLISH PAPER – 1)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

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*Attempt **all five** questions.*

The intended marks for questions or parts of questions are given in brackets [ ].

*You are advised to spend not more than **30** minutes in answering **Question 1** and **20** minutes in answering **Question 2.***

Question 1

(Do not spend more than 30 minutes on this question.)

Write a composition (300 - 350 words) on any one of the following: [20]

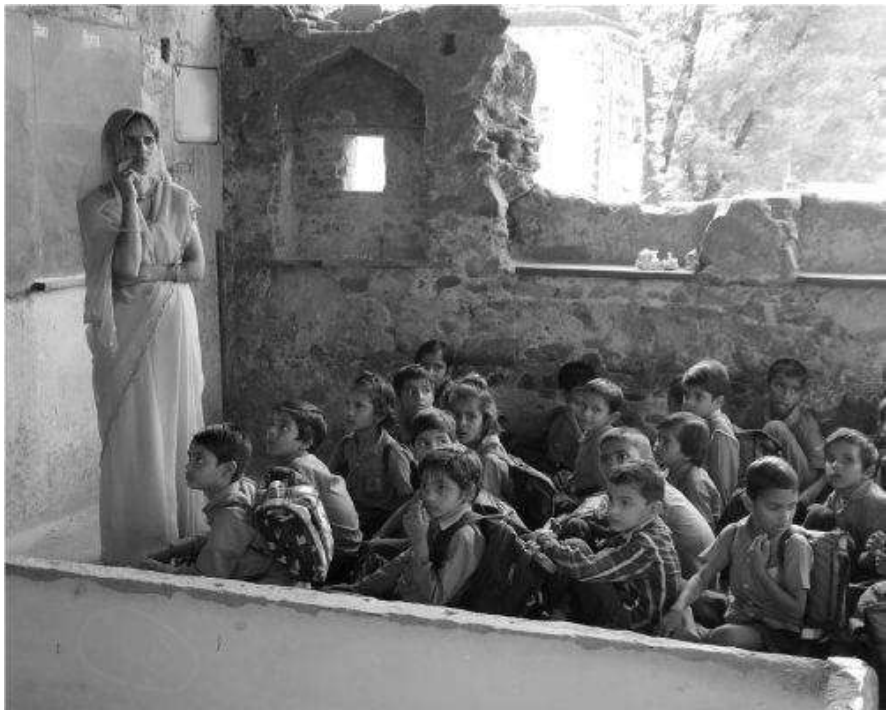
(i) Write an original short story entitled: 'A Narrow Escape'.

(ii) Have you ever forgiven someone when it was hard to do so?
Explain what helped you to forgive them, and the positive impact it had.
What did you learn from the experience?

(iii) *'Competition hampers the overall development of students.'.*
Express your views either for or against this statement.

(iv) You are taking a leisurely stroll in a beautiful garden.
Describe what you see around you, adding details about the sounds and the scents.

(v) Study the picture given below. Write a story or a description or an account of what it suggests to you. Your composition may be about the subject of the picture or you may take suggestions from it; however, there must be a clear connection between the picture and your composition.



Question 2 [10]

*(Do not spend more than **20** minutes on this question.)*

Select ***any one*** of the following:

(i) You recently read an interesting book that impacted you deeply. Write a letter to your friend highlighting the parts that impressed you. Explain two ways in which you would like to make changes in your behaviour or actions based on what you have read.

(ii) As someone who enjoys gardening, you would like other students in your school to experience its benefits. Write a letter to the principal of your school seeking permission to start a club for students to learn about gardening. Give specific reasons for your request and explain why the club would meet after school hours.

Question 3

(i) Your school is hosting an interschool debate competition. Write a notice informing the students at your school about the event. [5]

(ii) Write an e-mail to the principal of a neighbouring school informing him/her of the interschool debate competition being held at your school and requesting him/her to send a team of students to participate. [5]

Question 4

Read the following passage carefully and answer the questions that follow:

Tiger Talk:

It was still a busy hour in the city when I entered Market Road. People ran for their lives at the sight of me. As I progressed through, shutters were pulled down, and people hid themselves under culverts, on trees, behind pillars. The population was melting out of sight. At the circus I had had no chance to study human behaviour. Outside the circus ring they sat in their seats placidly while I cowered before Captain's whip. I got a totally wrong notion of human beings at that angle. I had thought that they were ***sturdy*** and fearless. But now I found them fleeing before me like a herd of deer, although I had no intention of attacking them. When I paused in front of a tailor's shop, he abandoned his machine and shut himself in a cupboard, wailing, 'Alas, I am undone, won't someone shoot that tiger?' A prisoner between two constables, who had been caught for murder and was just emerging from the Court House, got his chance to escape when the constables fled, abandoning him with his handcuffs. I tore a horse from its *jutka* and enjoyed the sight of the passengers spilling out of it and running for their lives. A couple of street dogs invited destruction when they barked madly, instead of minding their business.

Later, I learnt from my master of the chaos that befell the city when it became known that Captain had been destroyed and that I was somewhere in the city. Sheer hopelessness seems to have seized the townspeople. They withdrew to their homes and even there remained nervous. All doors and windows everywhere were shut, bolted, and sealed. Some even thought that I was some extraordinary creature who might pass through the walls and lie in wait on the roof or in the loft or ***basement***. Poor people living in huts had real cause to

worry: I could have taken any of their homes apart. But why should I? One could understand their fears, but why should those living in brick and cement feel nervous? It was due to their general lack of a sense of security and an irrational dread of losing their assets. Why should a simple tiger have any interest in them either to destroy or to safeguard?

I rested for a moment at the door of Anand Bhavan, on Market Road, where coffee drinkers and tiffin eaters at their tables sat transfixed, uttering low moans on seeing me. I wanted to assure them, 'Don't fear, I am not out to trouble you. Eat your tiffin in peace, don't mind me ... You, nearest to me, hugging the cash box, you are craven with fear, afraid even to breathe. Go on, count the cash, if that's your pleasure. I just want to watch, that's all ... If my tail trails down to the street, if I am blocking your threshold, it is because, I'm told, I'm eleven feet tip to tail. I can't help it. I'm not out to kill ... I'm too full—found a green pasture teeming with food on the way. Won't need any for several days to come, won't stir, not until I feel hungry again. Tigers attack only when they feel hungry, unlike human beings who slaughter one another without purpose or hunger ...'

— *A Tiger in the School*, R. K. Narayanan

(i) For each word given below choose the correct meaning (as used in the passage) from the options provided: [2]

1. sturdy *(line 7)*
   (a) brave
   (b) strong
   (c) compassionate
   (d) fixed
2. basement *(line 23)*
   (a) room at the top of the house
   (b) library
   (c) the ground floor
   (d) a room at the bottom of the house

(ii) Which word in the passage means the opposite of the word liabilities. [1]

(a) threshold

(b) chaos

(c) assets

(d) cash box

(iii) Answer the following questions briefly in your own words.

(a) Which sentence in the passage tells us that the people were fast disappearing? [2]

(b) Why was the prisoner lucky on that day? [2]

(c) What reason does the tiger give to explain why people in brick and cement houses are nervous? [2]

(d) The passage describes a man who is shivering with fear and clutching his cash box. What kind of a person do you think he was? [2]

(e) How would you have reacted if a tiger walked into the street outside your school? [1]

(iv) In not more than 50 words, describe the tiger's thoughts on how differently people behave inside and outside the circus. [8]

Question 5

(i) Fill in each of the numbered blanks with the correct form of the word given in brackets. Do not copy the passage but write in correct serial order the word or phrase appropriate to the blank space. [4]

Example:

(0) Rikki-tikki _____ (know) better than to waste time in staring.

Answer: *knew*

Rikki-tikki was angry. He sat back on his tail and hind legs, and _____ (1) (look) all round him, _____ (2) (chatter) with rage. But Nag and Nagaina _____ (3) (disappear) already into the grass. When a snake misses its stroke, it never _____ (4) (say) anything or _____

(5) (give) any sign of what it means to do next. Rikki-tikki did not care to follow them, for he did not _____ (6) (feel) sure that he _____ (7) (can) manage two snakes at once. So, he trotted off to the gravel path, and sat down to think. It _____ (8) (is) a serious matter for him.

(ii) Fill in the blanks with appropriate words. [4]

(a) My sister and I get _____ very well with each other.

(b) Mini plays basketball _____ her friends every day.

(c) It has been twenty years _____ she graduated from college.

(d) Growing up, we were looked _____ and brought up by our grandparents.

(e) Most students take the bus _____ school as it reaches the premises on time.

(f) The cricket match was put _____ because of torrential rains.

(g) Roy backed _____ of the competition at the last minute.

(h) I have been training under her _____ the past two years.

(iii) Join the following sentences to make one complete sentence **<u>without using</u>** ***and, but*** or ***so***. Choose the correct option. [4]

1. We placed our order late. We received the food on time.
   (a) Despite placed our order late, the food was received on time.
   (b) Despite placing our order late, we received the food on time.
   (c) Despite we placed our order late, the food was received on time.
   (d) Despite of us placing our order late, we receiving the food on time.
2. The music stopped. The audience left the auditorium.
   (a) Hardly had the music stopped so the audience left the auditorium.
   (b) Hardly had the music stopped then the audience left the auditorium.
   (c) Hardly had the music stopped since the audience left the auditorium.
   (d) Hardly had the music stopped when the audience left the auditorium.

3. You cannot enter the club. You do not have a membership.

   (a) You cannot enter the club unless you have a membership.

   (b) You cannot enter the club since you have a membership.

   (c) You cannot enter the club whereas you have a membership.

   (d) You cannot enter the club if you have a membership.

4. She was very late. She could not catch the train.

   (a) She was to late to catch the train.

   (b) She was so late to catch the train.

   (c) She was too late to catch the train.

   (d) She was as late so as to catch the train.

(iv) Choose the correct option to rewrite the following according to the instructions given after each sentence. [8]

1. The burglar ran away the moment he saw the guard.
   (Begin with: No sooner…)

   (a) No sooner has the burglar seen the guard, he ran away.

   (b) No sooner than the burglar saw the guard, he ran away.

   (c) No sooner did the burglar see the guard when he ran away.

   (d) No sooner had the burglar seen the guard than he ran away.

2. The parents have trained their children well.
   (Begin with: The children …)

   (a) The children were trained well by their parents.

   (b) The children is being trained well by their parents.

   (c) The children had been trained well by their parents.

   (d) The children have been trained well by their parents.

3. My cousins returned home one month ago.
   (Begin with: 'It has'...)

   (a) It has been one month for my cousins' return home.

   (b) It has been one month since my cousins returned home.

   (c) It has been one month when my cousins returned home.

   (d) It has been one month ago that my cousins returned home.

4. Your form will be accepted if it is submitted on time.
   (Use: 'unless')

   (a) Your form will be accepted unless it is submitted on time.

   (b) Unless your form is submitted on time, it will not be accepted.

   (c) Unless the form is accepted, it should be submitted on time.

   (d) Your form will be accepted unless it is not submitted on time.

5. The house needs a thorough cleaning again.
   (Use: thoroughly)

   (a) The house needs a thoroughly cleaning again.

   (b) The house needed a cleaning thoroughly again.

   (c) The house needs to be cleaned thoroughly again.

   (d) The house needed to be thoroughly clean yet again.

6. My sister offered me a new job in her company.
   (Begin with: A new job…)

   (a) A new job was offered to me by my sister in her company.

   (b) A new job has been offered to me by my sister in her company.

   (c) A new job had been offered to me by my sister in her company.

   (d) A new job was being offered to me by my sister in her company.

7. "I am going to watch my friend's play tomorrow," she said.
   (Begin with: She said...)

   (a) She said that she is going to watch her friend's play tomorrow.

   (b) She said that she will be going to watch her friend's play tomorrow.

   (c) She said that she was going to watch my friend's play the following day.

   (d) She said that she was going to watch her friend's play the following day.

8. Nithin is more talented than most of the professional musicians I know.

(Use: few)

(a) Professional musicians I know have few talents as Nithin.

(b) Few professional musicians I know are as talented as Nithin.

(c) Few professional musicians I know are not as talented as Nithin.

(d) Professional musicians I know do not have as few talents as Nithin.

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ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

LITERATURE IN ENGLISH

(ENGLISH PAPER – 2)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*The paper has **four** Sections.*

***Section A** is compulsory – **All** questions in Section **A** must be answered.*

*You must attempt **one** question from each of the Sections **B**, **C** and **D** and **one** other question from any Section of your choice.*

The intended marks for questions or parts of questions are given in brackets [ ].

SECTION A

*(Attempt **all** questions from this Section.)*

Question 1

Choose the correct answers to the questions from the given options.
(Do not copy the question, write the correct answers only.) [16]

(i) What does Shylock demand from Antonio?

(a) A pound of flesh

(b) Six thousand ducats

(c) An apology

(d) compassion

(ii) What does Portia ask for when Bassanio steps up to take the casket test?

(a) A banquet

(b) Music to be played

(c) A garland

(d) Applause

(iii) What does Portia mean when she tells Bassanio, '… I am lock'd in one of them:'?

(a) That she was locked in a cell and unable to escape.

(b) That she was a prisoner in her father's house.

(c) That her portrait lay hidden in one of the caskets.

(d) That she was bound firmly by her promise to her father.

(iv) Portia: There are some shrewd contents in yon same paper…
What does the 'paper' in this extract refer to?

(a) Portia's letter to Bellario

(b) Bellario's letter to the Duke

(c) Bassanio's letter to Antonio

(d) Antonio's letter to Bassanio

(v) Why does a quarrel break out between Nerissa and Gratiano in the final Act of 'The Merchant of Venice'?

(a) Gratiano admits that he had given away the ring which Nerissa had given to him.

(b) Nerissa admits that she had accompanied Portia to Venice disguised as a lawyer's clerk.

(c) Gratiano is annoyed with Nerissa for giving away his ring to a stranger in Venice.

(d) Nerissa is angry with Gratiano for leaving for Venice on the very day they were married.

(vi) How does Lorenzo recognize Portia even before he sees her when the two young women return from Venice?

(a) by the clothes she wears

(b) by the sound of her voice

(c) by the perfume she wears

(d) by her touch

(vii) Which of the following statements is NOT true of Sibia?

(a) She had long golden hair

(b) She had to work hard from her early years

(c) She was twelve years old

(d) She had no money to buy glass beads at the bazaar

(viii) What had the little match girl's grandmother told her about falling stars?

(a) When a star falls, a soul goes up to God.

(b) If she made a wish when she saw a star fall, her wish would come true.

(c) A falling star meant that it would be a cold winter.

(d) When a star falls, an angel dies.

(ix) Choose the option that lists the sequence of events in the correct order.

1. Joe sighed in relief - he realised that this meant his wife no longer resented Maggie's presence.
2. After supper, Joe went to the bedroom where Maggie lay waiting.
3. Joe looked in through the window and saw Maggie in conversation with his wife Jane.
4. He entered the house noisily and Jane hurried into the kitchen to make him his supper.

(a) 1, 2, 3, 4

(b) 2, 4, 1, 3

(c) 1, 3, 2, 4

(d) 3, 1, 4, 2

(x) Select the option that shows the correct relationship between statements (1) and (2) from All Summer in a Day.

1. One day, while in the school shower room, Margot had clutched her hands to her ears and covered her head, screaming and refusing to let the water touch her.
2. Margot realised that she was different from the others and that the children knew this difference and stayed away.

(a) 1 is the cause for 2

(b) 1 is an example of 2

(c) 1 is independent of 2

(d) 1 is a contradiction of 2

(xi) At the running broad jump trials Jesse Owens exclaims, "Did I come 3000 miles for this?" Which of the following words best describes Jesse's mood?

(a) envious

(b) frustrated

(c) confused

(d) thwarted

(xii) The fickle-mindedness of his followers made the central character in Browning's poem The Patriot feel _____ .

1. ambitious
2. disillusioned
3. bitter
4. optimistic

(a) 1 and 2

(b) 2 and 3

(c) 3 and 4

(d) 1 and 1

(xiii) What is the caged bird in Maya Angelou's poem, 'I Know Why the Caged Bird Sings' blinded by?

(a) Her narrow cage

(b) Her rage

(c) The sun's orange rays

(d) Her fears of the unknown

(xiv) What was Abou Ben Adhem doing when the angel appeared in his room one night?

(a) writing in a book of gold

(b) sleeping soundly

(c) walking in the moonlight

(d) asking questions

(xv) What special human quality does the poem 'Nine Gold Medals' celebrate?

(a) rivalry

(b) jealousy

(c) empathy

(d) selfishness

(xvi) Which of the following lines contains the same literary device as the one in Wordsworth, "Ten thousand saw I at a glance,"

(a) A hundred years should go to praise
Thine eyes and on thy forehead gaze;

(b) A fair breeze blow, the white foam flew
The furrow followed free,

(c) Frail as a dragon-fly's wing

(d) Because I could not stop for Death –
He kindly stopped for me —

SECTION B

*(Answer **one or more** questions from this Section.)*

DRAMA

(The Merchant of Venice by William Shakespeare)

Question 2

Read the extract given below and answer the questions that follow:

Bassanio: *A gentle scroll. —-- Fair lady, by your leave; [Kissing her]*
I come by note, to give and to receive.
Like one of two contending in a prize,
That thinks he has done well in people's eyes
Hearing applause and universal shout
Giddy in spirit, still gazing in a doubt
Whether those peals of praise be his or no;

(i) Where did Bassanio find the 'gentle scroll'?
What 'prize' had Bassanio just won? [3]

(ii) Explain why Bassanio said he felt 'Giddy in spirit, still gazing in a doubt'. [3]

(iii) Soon thereafter, Portia gives Bassanio a ring as a token of her love. What does this gift symbolise? [3]

(iv) What assurance does Bassanio give her while accepting this gift? [3]

(v) What does Portia urge Bassanio to do when she learns that his friend Antonio is in trouble? What aspect of her character do her words reveal? [4]

Question 3

Read the extract given below and answer the questions that follow:

Shylock: *Shall I not have barely my principal?*
Portia: *Thou shalt have nothing but the forfeiture,*
To be so cut taken at thy peril, Jew.

(i) What is the 'forfeiture' Portia mentions?
How will it prove perilous for Shylock? [3]

(ii) What does Portia go on to tell Shylock about the laws of Venice, as applicable for a foreigner? [3]

(iii) How does Gratiano mock Shylock at this point? [3]

(iv) What 'mercy' does the Duke now offer to Shylock? [3]

(v) How does Shylock react to the Duke's decision on his punishment?
What are your feelings for Shylock at this point in the play? Give reasons. [4]

SECTION C

*(Answer **one or more** questions from this Section.)*

PROSE - SHORT STORIES

(Treasure Trove – A Collection of ICSE Poems and Short Stories)

Question 4

Read the extract from Ray Bradbury's short story, 'All Summer in a Day' given below and answer the questions that follow:

The girl standing in the open, held out her hand
"Oh look, look," she said, trembling.
They came slowly to look at her opened palm.
In the center of it, cupped and huge, was a single raindrop. She began to cry,
looking at it. They glanced quietly at the sun.
"Oh. Oh"

(i) How old were 'they'? Where were they living? What had they been doing until the girl called their attention to the raindrop? [3]

(ii) Mention any three ways in which their lives on this planet differed from life on earth. [3]

(iii) Why does the girl begin to cry when she looks at the raindrop? [3]

(iv) Describe the dramatic change in the weather immediately after the raindrop fell. [3]

(v) What feelings do 'they' experience at the end of the story? What had they done earlier that made them feel this way? [4]

Question 5

Read the following extract by Jesse Owens from 'My Greatest Olympic Prize', and answer the questions that follow:

An angry athlete is an athlete who will make mistakes, as any coach will tell you. I was no exception. On the first of my three qualifying jumps, I leaped from several inches beyond the take-off board for a foul.

(i) When and where is this story set?
What reason does the narrator, Jesse Owens, give for the heightened nationalistic feelings at this time? [3]

(ii) In which event had Owens been confident of winning a gold medal? Why? [3]

(iii) What had made Owens angry enough to make mistakes? [3]

(iv) Name Owens' rival who approached him at this point? [3]

(v) How did the two athletes perform in the finals?
What does Jesse Owens consider his 'Greatest Olympic Prize'? Why? [4]

SECTION D

*(Answer **one or more** questions from this Section.)*

POETRY

(Treasure Trove – A Collection of ICSE Poems and Short Stories)

Question 6

Read the following extract from the poem 'Abou Ben Adem' by Leigh Hunt and answer the questions that follow:

Abou Ben Adhem (may his tribe increase)
Awoke one night from a deep dream of peace,

(i) What did Abou Ben Adhem see when woke from a deep sleep one night? [3]

(ii) What did Abou Ben Adhem ask the angel? What was the angel's response? [3]

(iii) What did Abou request the angel to do when he learnt that his name did not appear among the names of those who loved the Lord? What does this reveal to us of Abou Ben Adhem's character? [3]

(iv) When and how did the angel appear to Abou Ben Adhem again? What did the angel show Abou this time? [3]

(v) What does the poet mean by 'May his tribe increase!'? Why do you think he says this? What is the central message of the poem? [4]

Question 7

Read the extract from David Roth's poem, 'Nine Gold Medals' given below and answer the questions that follow:

And the banner above and nine smiling faces
Said more than these words ever will
Said more than these words ever will.

(i) What was ‘special’ about the athletes who were participating in this Sports Meet? What special quality of theirs does the poem celebrate? [3]

(ii) Which race was the highlight of the day? What was the signal that the athletes waited for? How many athletes participated in this race? [3]

(iii) How does the poet describe the state of mind of the athletes as they lined up for the race? Who won the race? [3]

(iv) If you had to give this poem an alternate title, what would you call it? Give reasons for your answer. [3]

(v) Give a brief account of what happened after the youngest athlete fell to the ground. Why do you think the author use the word ‘strange’ to describe the behaviour of the athletes? [4]

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

HISTORY & CIVICS

(H.C.G. Paper – 1)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the answer sheet provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

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*Attempt **all** questions from **Part I** (Compulsory).*

*A total of **five** questions are to be attempted from Part II, **two** out of three questions from **Section A** and **three** out of five questions from **Section B**.*

The intended marks for questions or parts of questions are given in brackets [ ].

PART I

*Attempt **all** questions from this **Part***

Question 1

Choose the correct answers to the questions from the given options. [16]

(Do not copy the question, write the correct answers only.)

(i) An ordinance is called a *temporary law*. Which of the following statements correctly describes the same?

(a) Only the Cabinet can prepare an ordinance.

(b) It is issued when the Parliament is not functioning.

(c) If the Parliament does not approve it within six weeks it becomes inoperative.

(d) Only the President can promulgate an ordinance.

(ii) Given below are details of a few Indian citizens.

Candidate	Age	Other Details
W	35	recently declared bankrupt
X	25	a successful industrialist
Y	30	belongs to a socially and educationally backward class
Z	31	convicted of a criminal offence and sentenced to imprisonment for two years

Select the person who fulfils the eligibility criteria to become a member of the Rajya Sabha, the upper house of the Indian Parliament.

(a) W

(b) X

(c) Y

(d) Z

(iii) *The opposition feels that the ruling government does not have the majority in the Lok Sabha and wants to bring down the Government.*

Which of these motions will the Leader of the Opposition move?

(a) Adjournment Motion

(b) No-confidence Motion

(c) Motion of Thanks

(d) Censure Motion

(iv) When the Supreme Court reviews any judgement made by it to remove an error, it falls under _____ jurisdiction.

(a) Advisory

(b) Revisory

(c) Original

(d) Appellate

(v) Identify the officials who form the electoral college for the Presidential elections in India.

P: elected members of Parliament

Q: nominated members of Parliament

R: elected members of State Legislative Assemblies

S: nominated members of State Legislative Councils

(a) P and Q

(b) R and S

(c) P and R

(d) Q and S

(vi) Court of District Judge : Civil Cases : : Sessions Court : _____ Cases

(a) Advisory

(b) Criminal

(c) Constitutional

(d) Appellate

(vii) Read the two statements given below about the Civil Disobedience Movement and select the option that shows the correct relationship between (A) and (B).

(A) Gandhi's Civil Disobedience was based on engaging in dialogue and negotiation with the British.

(B) Gandhi believed that violence and aggression are counterproductive to achieve any goal.

(a) (B) contradicts (A).

(b) (B) is the reason for (A).

(c) (A) is true but (B) is false.

(d) (A) and (B) are independent of each other.

(viii) The central government of a country named X has decided to enforce a law similar to the Vernacular Press Act, which was enacted by the British in India in 1878 to control and regulate the vernacular press.

Based on this information, who among the following is most likely to benefit from the enforcement of the law in X?

(a) its citizens

(b) the media industry

(c) the opposition party

(d) the ruling political party

(ix) In 1856, the British East India Company justified the annexation of Awadh, a princely state in northern India, on what grounds?

(a) acquire more land for British colonies

(b) stop the rebellion against the British

(c) punish the Nawab of Awadh for opposing British rule

(d) due to alleged misgovernance by the Nawab of Awadh

(x)

Daily

NO. 4,438. LONDON, MONDAY, JUNE

HEIR TO AUSTRIAN THRONE MURDERED.

ARCHDUKE AND HIS WIFE SHOT DEAD IN THE STREET.

DETERMINED PLOT.

BOMB FIRST THROWN AT THEIR CAR.

SECOND ATTEMPT WITHIN AN HOUR.

BOY ASSASSIN.

MURDERED ARCHDUKE AND WIFE.

18-YEAR-OLD ASSASSIN

MANY PERSONS INJURED BY THE FIRST BOMB.

Source: Daily Express, 29th June, Monday 1914

Which of the following is an **immediate** impact of the above incident?

(a) It led to the supremacy of America

(b) It led to the First World War

(c) Austria and Hungary became two independent nations.

(d) Democracy replaced monarchy in many countries.

(xi) Identify the odd one out of the following objectives:

(a) To promote among Muslims of India, support for the British government

(b) To remove any misconceptions regarding the intention of the government

(c) To protect and advance the political rights and interests of the Muslims

(d) To abolish the zamindari system

(xii) A college student named Roshni is doing a project on a prominent Indian leader whose core work revolved around Dalit rights.

Who is Roshni MOST LIKELY writing about?

(a) Surendranath Banerjee

(b) Pherozeshah Mehta

(c) Dadabhai Naoroji

(d) Jyotiba Phule

(xiii) _____ was the cause for the renewal of the Civil Disobedience Movement.

(a) Failure of the Second Round Table Conference

(b) Rowlatt Act

(c) Mountbatten Plan

(d) Failure of the Cripps Mission

(xiv) The non-permanent members of the Security Council have a term of _____ years.

(a) 2

(b) 3

(c) 5

(d) 10

(xv) Which of the following policies of a dictator ruling over Country X is MOST aligned with the ideologies of Mussolini during his time in power?

(a) prioritising military expansion

(b) promoting environmental sustainability

(c) creating a healthcare program for all citizens equally

(d) offering financial aid to support the education of students from poor backgrounds

(xvi) Which of the following scenarios describes the Non-Alignment Policy (NAM)?

(a) A country forms a military alliance only with the United States.

(b) A country maintains relations with both factions during the Cold War and does not take sides.

(c) A country is part of a religious movement advocating non-violence

(d) A country aligns with Soviet Union and receives military aid

Question 2

(i) Read the given news carefully. [2]

Headline: Mysuru Lok Adalat settles 53-year-old civil case involving Kannada poets' kin. This case went on for a total of 53 years in various courts and involved 10 advocates and 40 witnesses.

Source: news18.com published on March 14, 2022

State *any two* advantages of Lok Adalats that can be deduced from the above news headline.

(ii) Imagine you were part of the German military in the year 1919, mention any two terms of the *Treaty of Versailles* which would impact you. [2]

(iii) Mention *any two* contributions of Subash Chandra Bose. [2]

(iv) Give *two* reasons for the acceptance of the *Mountbatten Plan* by the Congress. [2]

(v) Mention any two methods of the Assertive Nationalists. [2]

(vi) Mention any two objectives of the League of Nations. [2]

(vii) Name the two alliances formed in Europe before the beginning of the First World War. [2]

PART II

SECTION A

*Attempt **any two** questions from this Section.*

Question 3

The Union Legislature of India is not only the lawmaking body, but the center of all democratic political process. With reference to the Parliament, answer the following questions:

(i) Mention *any three* circumstances under which the Lok Sabha can make laws on a subject in the State list. [3]

(ii) Mention *any three* financial powers of the Union Parliament. [3]

(iii) The Speaker plays a key role in maintaining order and ensuring the smooth functioning of the Lok Sabha. Mention any four functions of the Speaker to support this statement. [4]

Question 4

The President is the nominal head of the executive, the first citizen of the country, as well as the commander-in-chief of the Indian Armed Forces. With reference to this, answer the following questions:

(i) Mention *any three* qualifications required for a person to be nominated to the post of the President. [3]

(ii) Mention *any three* discretionary powers of the President. [3]

(iii) Describe the procedure of impeachment of the President. [4]

Question 5

The Supreme Court of India is the supreme judicial authority and the highest court of the Republic of India. It is the final court of appeal for all civil and criminal cases . With reference to the Supreme Court, answer the following questions:

(i) Who appoints the judges of the Supreme Court? [3]
Mention *any two* qualifications required for a person to be appointed as a judge of the Supreme Court.

(ii) Explain the term Original Jurisdiction of the Supreme Court with *any two* examples. [3]

(iii) Name *any four* writs issued by the Supreme Court. [4]

SECTION B

*Attempt **any three** questions from this Section.*

Question 6

The Indian Rebellion of 1857 was a major uprising against the rule of the British East India Company, which functioned as a sovereign power on behalf of the British Crown. With reference to this, answer the following questions:

(i) Mention *any three* administrative changes made in India as a consequence of the Revolt. [3]

(ii) How did the failure of this Revolt impact the Mughals and the Peshwas? [3]

(iii) Mention *any four* changes made in the army after the Revolt. [4]

Question 7

Nationalism refers to the feeling of oneness that emerges when people consider themselves as one nation. With reference to the growth of nationalism, answer the following:

(i) Name the founder of the Indian National Congress. [3]
Mention *any two* of its objectives.

(ii) How did the press contribute to the growth of nationalism? [3]

(iii) Mention *any four* repressive policies of Lord Lytton. [4]

Question 8

Read the excerpt given below and answer the questions that follow-

The movement had generated worldwide publicity, and British were looking for a way to end it. Gandhiji was released from custody in January 1931, and the two men began negotiating the terms of the pact. For many conservatives in England, the meetings and talks seemed unacceptable. They thought it was inappropriate for the Viceroy, who was the representative of the British Monarch, to receive their arch-enemy. Gandhiji was authorised by the then President of the Congress, Sardar Vallabh Bhai Patel, to negotiate with the Viceroy. He advised the nation to wait, watch, pray and hope for a better prospect for India. He was full of admiration for the people, their heroic struggle and hard suffering.

Source: The Hindu

(i) Who was the Viceroy who negotiated with Gandhiji? [3]
Name *any two* causes of the movement being discussed above.

(ii) Mention any three impacts of this movement. [3]

(iii) As a consequence of this meeting, a pact was signed. [4]
Mention *any four* conditions that the Congress and the British Government agreed to according to this pact.

Question 9

Look at the picture given and answer the following questions:

(i) Identify the leader in the above picture. Mention *any two* of his ideologies. [3]

(ii) Mention *any three* causes for his rise to power. [3]

(iii) What was the immediate cause of the Second World War? [4]
Mention *any three* reasons given by this leader to justify his action.

Question 10

The United Nations Organisation aims to maintain international peace. With reference to its organs and agencies, answer the following:

(i) What is the composition of the International Court of Justice? [3]

(ii) Mention *any three* functions of the Security Council. [3]

(iii) Give the full form of UNICEF. Mention *any three* of its functions. [4]

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

MATHEMATICS

Maximum Marks: 80

Time allowed: Two and half hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Attempt **all** questions from **Section A** and **any four** questions from **Section B**.*

All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets [ ]

***Mathematical tables are provided**.*

SECTION A

*(Attempt **all** questions from this Section.)*

Question 1

Choose the correct answers to the questions from the given options. [15]

(Do not copy the question, write the correct answers only.)

(i) $If\ A = \begin{bmatrix} -1 & 2 \end{bmatrix}\ and\ B = \begin{bmatrix} 1 & -2 \\ 0 & 3 \end{bmatrix}$

Which of the following operation is possible?

(a) A – B

(b) A + B

(c) AB

(d) BA

(ii) If $x^2 + kx + 6 = (x - 2)(x - 3)$ for all values of *x*, then the value of *k* is:

(a) – 5

(b) – 3

(c) – 2

(d) 5

(iii) A retailer purchased an item for ₹1500 from a wholesaler and sells it to a customer at 10% profit. The sales are intra-state and the rate of GST is 10%. The amount of GST paid by the customer:

(a) ₹15

(b) ₹30

(c) ₹150

(d) ₹165

(iv) If the roots of equation $x^2 - 6x + k = 0$ are real and distinct, then value of k is:

(a) > –9

(b) > –6

(c) < 6

(d) < 9

(v) Which of the following is/are an Arithmetic Progression (A.P.)?

1. 1, 4, 9, 16,…….

2. √3, 2√3, 3√3, 4√3,……

3. 8, 6, 4, 2,……

(a) only 1.

(b) only 2.

(c) only 2. and 3.

(d) all 1., 2. and 3.

(vi) The table shows the values of x and y, where x is proportional to y.

x	6	12	N
y	M	18	6

What are the values of M and N?

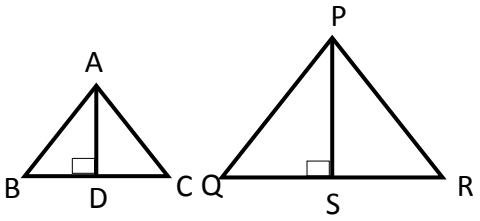
(a) M = 4, N = 9

(b) M = 9, N = 3

(c) M = 9, N = 4

(d) M = 12, N =0

(vii) In the given diagram, Δ ABC ~ Δ PQR and $\frac{AD}{PS} = \frac{3}{8}$. The value of AB : PQ is:



(a) 8 : 3

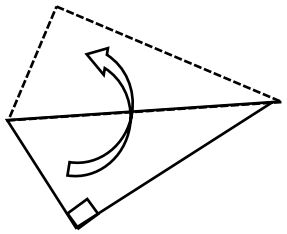
(b) 3 : 5

(c) 3 : 8

(d) 5 : 8

(viii) A right angle triangle shaped piece of hard board is rotated completely about its hypotenuse, as shown in the diagram. The solid so formed is always:

1. a single cone
2. a double cone



Which of the statement is valid?

(a) only 1.

(b) only 2.

(c) both 1. and 2.

(d) neither 1. nor 2.

(ix) Event A: The sun will rise from east tomorrow.

Event B: It will rain on Monday.

Event C: February month has 29 days in a leap year.

Which of the above event(s) has probability equal to 1?

(a) all events A, B and C

(b) both events A and B

(c) both events B and C

(d) both events A and C

(x) The three vertices of a scalene triangle are always equidistant from a fixed point. The point is:

(a) Orthocentre of the triangle.

(b) Incentre of the triangle.

(c) Circumcentre of the triangle.

(d) Centroid of the triangle.

(xi) In a circle with radius R, the shortest distance between two parallel tangents is equal to:

(a) R

(b) 2R

(c) $2\pi R$

(d) πR

(xii) An observer at point E, which is at a certain distance from the lamp post AB, finds the angle of elevation of top of lamp post from positions C, D and E as α, β and γ. It is given that B, C, D and E are along a straight line.

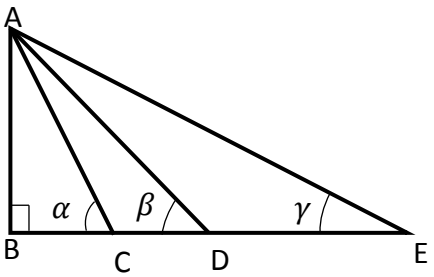
Which of the following condition is satisfied?

(a) $\tan\alpha > \tan\beta$

(b) $\tan\beta < \tan\gamma$

(c) $\tan\gamma > \tan\alpha$

(d) $\tan\alpha < \tan\beta$



(xiii) 1. Shares of company A, paying 12%, ₹100 shares are at ₹80.

2. Shares of company B, paying 12%, ₹100 shares at ₹100.

3. Shares of company C, paying 12%, ₹100 shares are at ₹120.

Shares of which company are at premium?

(a) Company A

(b) Company B

(c) Company C

(d) Company A and C

(xiv) Which of the following equation represent a line passing through origin?

(a) $3x - 2y + 5 = 0$

(b) $2x - 3y = 0$

(c) $x = 5$

(d) $y = -6$

(xv) For the given 25 variables: $\boldsymbol{x_1}, \boldsymbol{x_2}, \boldsymbol{x_3} \ldots\ldots\ldots\ldots\ldots \boldsymbol{x_{25}}$

Assertion (**A**): To find median of the given data, the variate needs to be arranged in ascending or descending order.

Reason (**R**): The median is the central most term of the arranged data.

(a) A is true, R is false

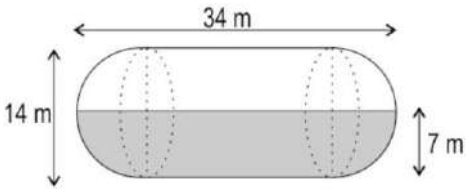
(b) A is false, R is true

(c) both A and R are true

(d) both A and R are false

Question 2

(i) Shown below is a horizontal water tank composed of a cylinder and two hemispheres. The tank is filled up to a height of 7 m. Find the surface area of the tank in contact with water. Use $\pi = \frac{22}{7}$. [4]



(ii) In a recurring deposit account for 2 years, the total amount deposited by a person is ₹ 9600. If the interest earned by him is one-twelfth of his total deposit, then find: [4]

(a) the interest he earns.

(b) his monthly deposit.

(c) the rate of interest.

(iii) Find: [4]

(a) $(\sin\theta + cosec\,\theta)^2$

(b) $(cos\,\theta + sec\,\theta)^2$

Using the above results prove the following trigonometry identity.

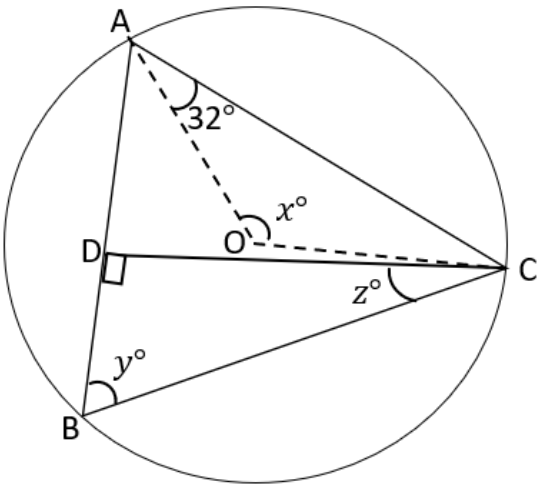
$(\sin\theta + cosec\,\theta)^2 + (\cos\theta + \sec\theta)^2 = 7 + tan^2\theta + cot^2\theta$

Question 3

(i) If *a*, *b* and *c* are in continued proportion, then prove that: [4]

$$\frac{3a^2 + 5ab + 7b^2}{3\,b^2 + 5\,bc + 7c^2} = \frac{a}{c}$$

(ii) In the given diagram, O is the centre of circle circumscribing the ΔABC. CD is perpendicular to chord AB. ∠OAC=32°. Find each of the unknown angles *x*, *y* and *z*. [4]



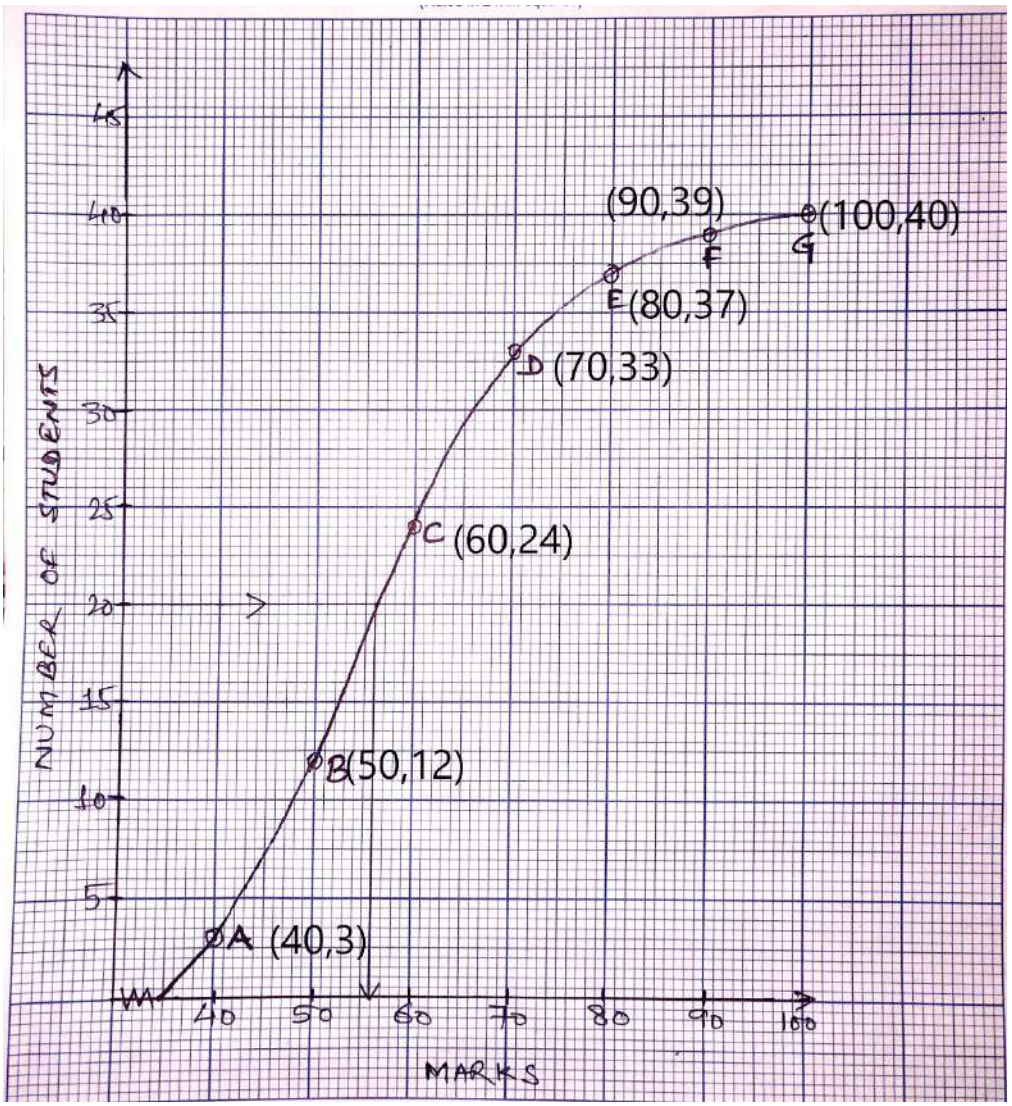
(iii) Study the graph and answer each of the following: [5]

(a) Name the curve plotted

(b) Total number of students

(c) The median marks

(d) Number of students scoring between 50 and 80 marks



SECTION B

*(Attempt **any four** questions from this Section.)*

Question 4

(i) If $A = \begin{bmatrix} 4 & -4 \\ -4 & 4 \end{bmatrix}$, find A^2. If $A^2 = p\,A$, then find the value of p. [3]

(ii) Solve the given equation $x^2 - 4x - 2 = 0$ and express your answer correct to two places of decimal. [3]

(You may use mathematical tables for this question).

(iii) In the given diagram, ΔABC is right angled at B. BDFE is a rectangle. [4]

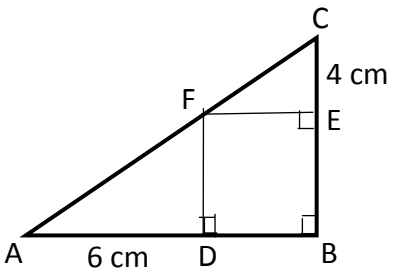
AD = 6 cm, CE = 4 cm and BC = 12 cm

(a) prove that ΔADF ~ΔFEC

(b) prove that ΔADF ~ΔABC

(c) find the length of FE

(d) find area ΔADF : area ΔABC



Question 5

(i) Shown below is a table illustrating the monthly income distribution of a company with 100 employees. [3]

Monthly Income (in ₹10, 000)	0 - 4	4 - 8	8 - 12	12 - 16	16 - 20	20 - 24
Number of employees	55	15	06	08	12	4

Using step- deviation method, find the mean monthly income of an employee.

(ii) The following bill shows the GST rate and the marked price of articles: [3]

Vidhyut Electronics				
S. No.	Item	Marked Price	Quantity	Rate of GST
(a)	LED TV set	₹ 12000	01	28%
(b)	MP4 player	₹ 5000	01	18%

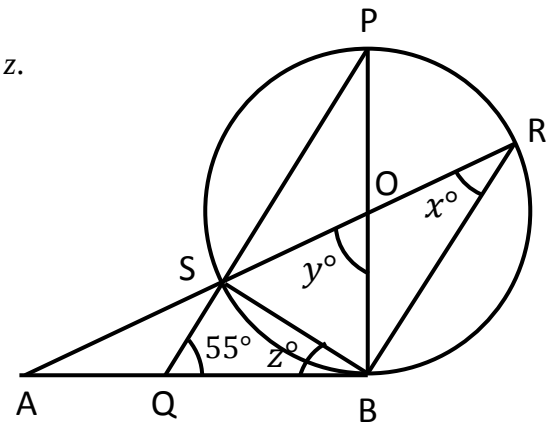
Find the total amount to be paid (including GST) for the above bill.

(iii) In the given figure, O is the centre of the circle and AB is a tangent to the circle at B. [4]

If $\angle PQB=55^o$.

(a) find the value of the angles *x*, *y* and *z*.

(b) prove that RB is parallel to PQ.



Question 6

(i) There are three positive numbers in a Geometric Progression (G.P.) such that: [3]

(a) their product is 3375

(b) the result of the product of first and second number added to the product of second and third number is 750.

Find the numbers.

(ii) The table given below shows the ages of members of a society. [3]

Age (in years)	Number of Members of the Society
25 – 35	05
35 – 45	32
45 – 55	69
55 - 65	80
65 – 75	61
75 - 85	13

Use graph sheet for this question.

Take 2cm = 10 years along one axis and 2cm=10 members along the other axis.

(a) Draw a histogram representing the above distribution.

(b) Hence find the modal age of the members.

(iii) A tent is in the shape of a cylinder surmounted by a conical top. If the height and radius of the cylindrical part are 7 m each and the total height of the tent is 14 m. Find the: [4]

(a) quantity of air contained inside the tent.

(b) radius of a sphere whose volume is equal to the quantity of air inside the tent.

Use $\pi = \frac{22}{7}$

Question 7

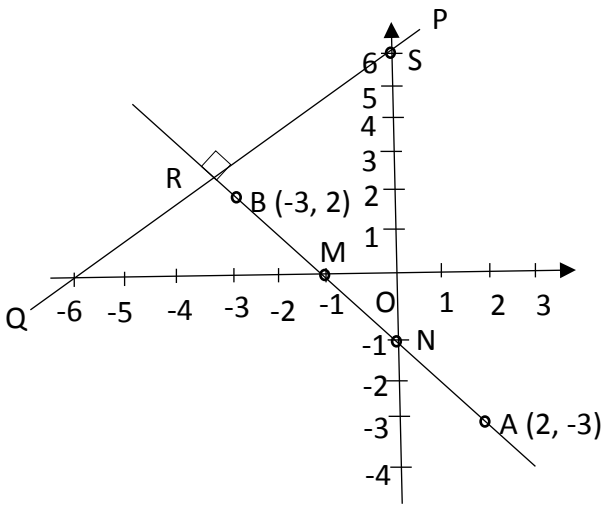
(i) The line segment joining A(2,-3) and B(-3, 2) is intercepted by the x-axis at the point M and the y axis at the point N. PQ is perpendicular to AB produced at R and meets the y- axis at a distance of 6 units from the origin O, as shown in the diagram, at S. Find the: [5]

(a) coordinates of M and N

(b) coordinates of S

(c) slope of AB.

(d) equation of line PQ.

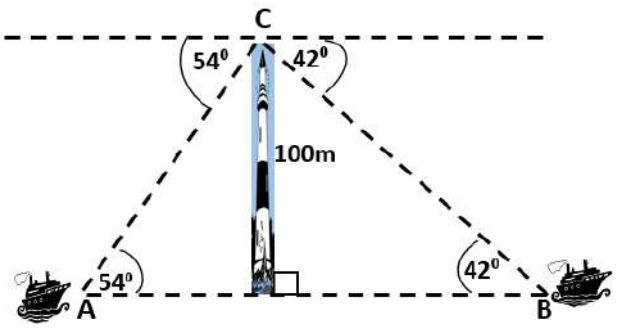


(ii) The angle of depression of two ships A and B on opposite sides of a light house of height 100m are respectively 42^o and 54^o. The line joining the two ships passes through the foot of the lighthouse. [5]

(a) Find the distance between the two ships A and B.

(b) Give your final answer correct to the nearest whole number.

(Use mathematical tables for this question)



Question 8

(i) Solve the following inequation write the solution set and represent it on the real number line. [3]

$$3 - 2x \geq x + \frac{1-x}{3} > \frac{2x}{5}, x \in R$$

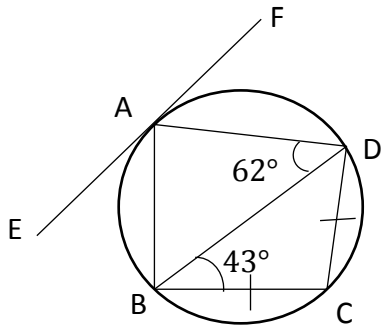
(ii) ABCD is a cyclic quadrilateral in which BC = CD and EF is a tangent at A. [3]

∠CBD = 43° and ∠ADB = 62°. Find:

(a) ∠ADC

(b) ∠ABD

(c) ∠FAD



(iii) A (a, b), B(-4, 3) and C(8,-6)are the vertices of a ΔABC. Point D is on BC such that BD : DC is 2 : 1 and M (6, 0) is mid point of AD. Find: [4]

(a) coordinates of point D.

(b) coordinates of point A.

(c) equation of a line passing through M and parallel to line BC.

Question 9

(i) Using componendo and dividend, find the value of *x*, when: [3]

$$\frac{x^3 + 3x}{3x^2 + 1} = \frac{14}{13}$$

(ii) The total expense of a trip for certain number of people is ₹18000. If three more people join them, then the share of each reduces by ₹3000. Taking *x* to be the original number of people, form a quadratic equation in *x* and solve it to find the value of *x*. [3]

(iii) Using ruler and compass only construct ∠ABC = 60°, AB = 6 cm and BC = 5 cm. [4]

(a) construct the locus of points equidistant from AB and BC.

(b) construct the locus of points equidistant from A and B.

(c) Mark the point which satisfies both the conditions (a) and (b) as P.

Hence, construct a circle with centre P and passing through A and B.

Question 10

(i) Using remainder and factor theorem, factorize completely, the given polynomial: [3]

$2x^3 - 9x^2 + 7x + 6$

(ii) Each of the letter of the word "HOUSEWARMING"" is written on cards and put in a bag. [3]
If a card is drawn at random from the bag after shuffling, what is the probability that the letter on the card is:

(a) a vowel

(b) one of the letters of the word SEWING.

(c) not a letter from the word WEAR.

(iii) Use graph sheet for this question. Take 2 cm = 1 unit along the axes. [4]

(a) Plot A (1, 2), B(1, 1)and C (2, 1)

(b) Reflect A, B and C about y-axis and name them as A', B' and C'.

(c) Reflect A, B, C, A', B' and C' about x-axis and name them as A", B", C", A"', B"' and C"' respectively.

(d) Join A, B, C, C", B", A", A"', B"', C"', C', B', A' and A to form a closed figure.

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

GEOGRAPHY

(H.C.G. PAPER – 2)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the answer sheet provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

***Part I** is **compulsory**. **All questions** from **Part I** are to be attempted.*

*A total of **five questions** are to be attempted from **Part II.***

The intended marks for questions or parts of questions are given in brackets [ ].

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*To be supplied with this Paper: Survey of India Map Sheet No. **G43S7***
and 20 cm of twine.

***Note**:*

(i) *In all **Map Work**, make wise use of arrows to avoid overcrowding of the map.*

(ii) *The extract of **Survey of India Map Sheet No. G43S7** must not be taken out of the examination hall. It must be handed over to the Supervising Examiner on completion of the paper.*

(iii) *The Map given at the end of this question paper must be detached, and after marking, must be fastened to your answer booklet.*

(iv) ***All sub-sections of the questions attempted must be answered in the correct serial order.***

(v) *All working including rough work should be done on the same answer sheet which is used to answer the rest of the paper.*

PART I (30 Marks)

*(Attempt **all** questions from this **Part.**)*

Question 1

Study the extract of the **Survey of India** Map sheet No. **G43S7** and answer the following questions:

(i) (a) Give the six-figure grid reference for .201 in the eastern part of the map extract. [2]

(b) What are the brown patches in the northeast quarter of the map extract?

(ii) Mohan goes on a bicycle from 02 northing to 12 northing in a straight line. If he moves at a speed of 10 kilometers per hour, how much time will he take to reach his destination? [2]

(iii) (a) What is the compass direction of Rampura (2709) to Kotda (3005)? [2]

(b) What is the nature of streams seen in the map extract?

(iv) (a) Ramesh returned to his native place Mahudi Moti (2404) after a gap of ten years and was happy to see the development around his village. What according to you show that the area around his village has developed? [2]

(b) What is the black vertical line made between the easting 25 and 26?

(v) Mention two man made and two natural features in the grid square 2508. [2]

Question 2

On the outline map of India provided:

(i) Shade and label an alluvial soil area of India. [1]

(ii) Mark with a dot and name the city which lies on the banks of river Jhelum. [1]

(iii) Mark and name the highest peak of India. [1]

(iv) Shade and label Gulf of Kutch. [1]

(v) Mark with arrow and label N E Monsoon wind. [1]

(vi) Shade and label a densely populated area in South India. [1]

(vii) Mark and label Himalayas. [1]

(viii) Mark and label Brahmaputra. [1]

(ix) Mark and label Tropic of Cancer. [1]

(x) Mark and label Malabar coast. [1]

Question 3

Choose the correct answers to the questions from the given options. [10]

(Do not copy the question, write the correct answers only.)

(i) Which of the following is the CORRECT set of water bodies from which the Southwest monsoon picks up moisture?

(a) Arabian sea + Bay of Bengal + Indian Ocean

(b) Indian Ocean + Andaman Sea + Arabian Sea

(c) Bay of Bengal + Indian Ocean + Andaman Sea

(d) Gulf of Mannar + Mediterranean Sea + Indian Ocean

(ii) Feel and consistency of soil is called _____ of the soil.

(a) Profile

(b) Parent rock

(c) Texture

(d) Nature

(iii) Teak and Shisham are the typical trees of which of the following natural vegetation belt?

(a) Tropical Evergreen

(b) Tropical Monsoon

(c) Tropical Desert

(d) Littoral forest

(iv) Which of the following may be used for the recharging of underground water?

(a) Planting of shelter belt

(b) Gullies and ravines

(c) Percolation pit

(d) Commercial farming

(v) Which type of coal is called an industrial coal?

(a) Peat

(b) Lignite

(c) Bituminous

(d) Anthracite

(vi) Maharashtra is the leading producer of which of the following cash crop?

(a) Jute

(b) Cotton

(c) Coffee

(d) Tea

(vii) Which crop is associated with Ratooning?

(a) Sugarcane

(b) Jute

(c) Rice

(d) Cotton

(viii) Which steel plant amongst the following was set up with the collaboration with Germany?

(a) Bhilai

(b) Tata Steel

(c) Vishakhapatnam

(d) Rourkela

(ix) Which is the busiest artificial port of India?

(a) Goa

(b) Mumbai

(c) Chennai

(d) Vishakhapatnam

(x) What is the depletion of oxygen in a water body resulting from pollution called?

(a) Decay of water

(b) Eutrophication

(c) Bio magnification

(d) Greenhouse effect

PART II (50 Marks)

*(Attempt **any five** questions from this **Part.**)*

Question 4

(i) *The southwest monsoon is late this year. The Indian Meteorological Department (IMD) on Tuesday, May 16, had predicted that the onset of southwest monsoon is delayed by four days. An agricultural economy, India is heavily reliant on the monsoon which brings 75 percent of its annual rainfall.* [2]

— Indian Express

(a) As a student of Geography, what according to you may be the reason for the delay of monsoon?

(b) What is the usual time for the onset of summer monsoon in Kerala?

(ii) What is the source of winter rainfall in the following areas? [2]

(a) Punjab

(b) Tamil Nadu

(iii) Give a reason for each of the following: [3]

(a) West Bengal gets rainfall from summer monsoons much before Uttar Pradesh.

(b) Mawsynram is the rainiest place in the world

(c) Himalayas act as a climate divide

(iv) Study the climatic data of station X and answer the following questions: [3]

Month	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Temp (^oC)	23.1	24.8	26.5	29.3	32	32.8	33.1	32.1	30.5	29.3	28.7	26.1
Rainfall (cm)	15.3	10.1	0.3	0.1	1.3	4.5	6.1	10.2	10.5	20.1	16.8	19.0

(a) What is the annual range of temperature of station X?

(b) Which is the driest month?

(c) Name the wind that brings maximum rainfall to this station.

Question 5

(i) Define the following terms: [2]

(a) Soil Fertility

(b) Soil conservation

(ii) With reference to soil erosion in India answer the following questions. [2]

(a) State any two human activities that have led to soil erosion in India.

(b) Mention any two agricultural techniques that can help to prevent soil erosion.

(iii) With reference to Red Soil, answer the following: [3]

(a) How is it formed?

(b) Why is it good for Dry Farming?

(c) Name any two areas where it is found.

(iv) Give a reason for the following statements: [3]

(a) Black Soil has self-ploughing property.

(b) Laterite Soil is not suitable for cultivation.

(c) Alluvial soil is the most fertile soil.

Question 6

(i) Mahesh went for an excursion with his friend and came across a marshy area with the trees that had stilt like roots. [2]

(a) Which natural vegetation belt did he come across?

(b) Name one area in India where this kind of vegetation is found.

(ii) (a) Why is tropical deciduous forest commercially the most important forest belt of India? [2]

(b) Why are long and deep roots a typical characteristic of desert vegetation?

(iii) Why is forest conservation the need of the hour? *(Three points)* [3]

(iv) (a) Name a forest conservation method that involves the local community. [3]

(b) Which primitive system of agriculture had led to large scale destruction of forest in the past?

(c) Name the process which involves planting two saplings for each tree that is felled.

Question 7

(i) Why is there a need for irrigation in India? (Two reasons) [2]

(ii) Distinguish between Inundation Canals and Perennial Canals. [2]

(iii) Name a state in India where tube wells are commonly used. Give *two* reasons to support your answer. [3]

(iv) (a) What is meant by Rainwater Harvesting? [3]

(b) Mention *any two* water harvesting practices followed in India.

Question 8

(i) (a) Give any one use of Iron ore. [2]

(b) Name two Indian states where copper is found.

(ii) With reference to Hirakud project answer the following: [2]

(a) On which river is it based?

(b) Name an Indian state benefited by the project.

(iii) (a) Give two disadvantages of using Petroleum as a source of power. [3]

(b) Name an offshore oil field of India.

(iv) (a) Mention *two* advantages of wind energy. [3]

(b) What is the advantage of using nuclear power in place of conventional sources of energy?

Question 9

(i) Mention *two* agricultural reforms done by the government for the betterment of the agricultural sector. [2]

(ii) (a) Mention the climatic conditions found suitable for growing groundnut. [2]

(b) Name the state that is the leading producer of groundnut in India.

(iii) With reference to cultivation of pulses answer the following: [3]

(a) Name a soil found suitable for the growth of pulses.

(b) Name any two pulses grown in India.

(c) Why is it a popular food crop of India?

(iv) Rohan is a farmer. He asked his friend to help him get some labourers for 'GINNING'. [3]

(a) Which crop do you think is grown by Rohan?

(b) Mention any two climatic conditions suitable for this crop.

Question 10

(i) Differentiate between large scale and small-scale industries. [2]

(ii) Give *two* ways in which the Electronic Industry is important for India. [2]

(iii) With reference to petrochemical industry answer the following: [3]

(a) Why is it becoming popular in recent times?

(b) Why is it located close to oil refineries?

(c) Name *any two* petrochemical products.

(iv) (a) Name the country that had helped in the establishment of Bhilai steel plant. [3]

(b) Why is the iron and steel industry called a basic or key industry?

(c) Where is Tata Steel located?

Question 11

(i) Mention *two* advantages of using waterways. [2]

(ii) What is the importance of the Golden Quadrilateral? [2]

(iii) Mention *three* disadvantages of roadways. [3]

(iv) Give a reason for the following: [3]

(a) Railways are well developed in the northern states of India.

(b) Sea transport has lost its popularity in recent times.

(c) Helicopter services are crucial during emergencies.

Question 12

(i) What is the impact for waste generation on the following? [2]

(a) Surface water

(b) Landscape.

(ii) Why is dumping considered a harmful method of waste disposal? (Two points.) [2]

(iii) *A fire broke out at the Kochi city corporation-run waste treatment plant. Thick clouds of toxic smoke engulfed the city. The unsorted waste at the plant contained PVC and clinical waste, both of which on combustion are extremely harmful for the general health of people.* [3]

— Economic times

(a) Which method of waste management would have helped in reducing health hazard in the above case?

(b) What measures may be undertaken by individuals to reduce waste?

(c) How can urban waste be made useful?

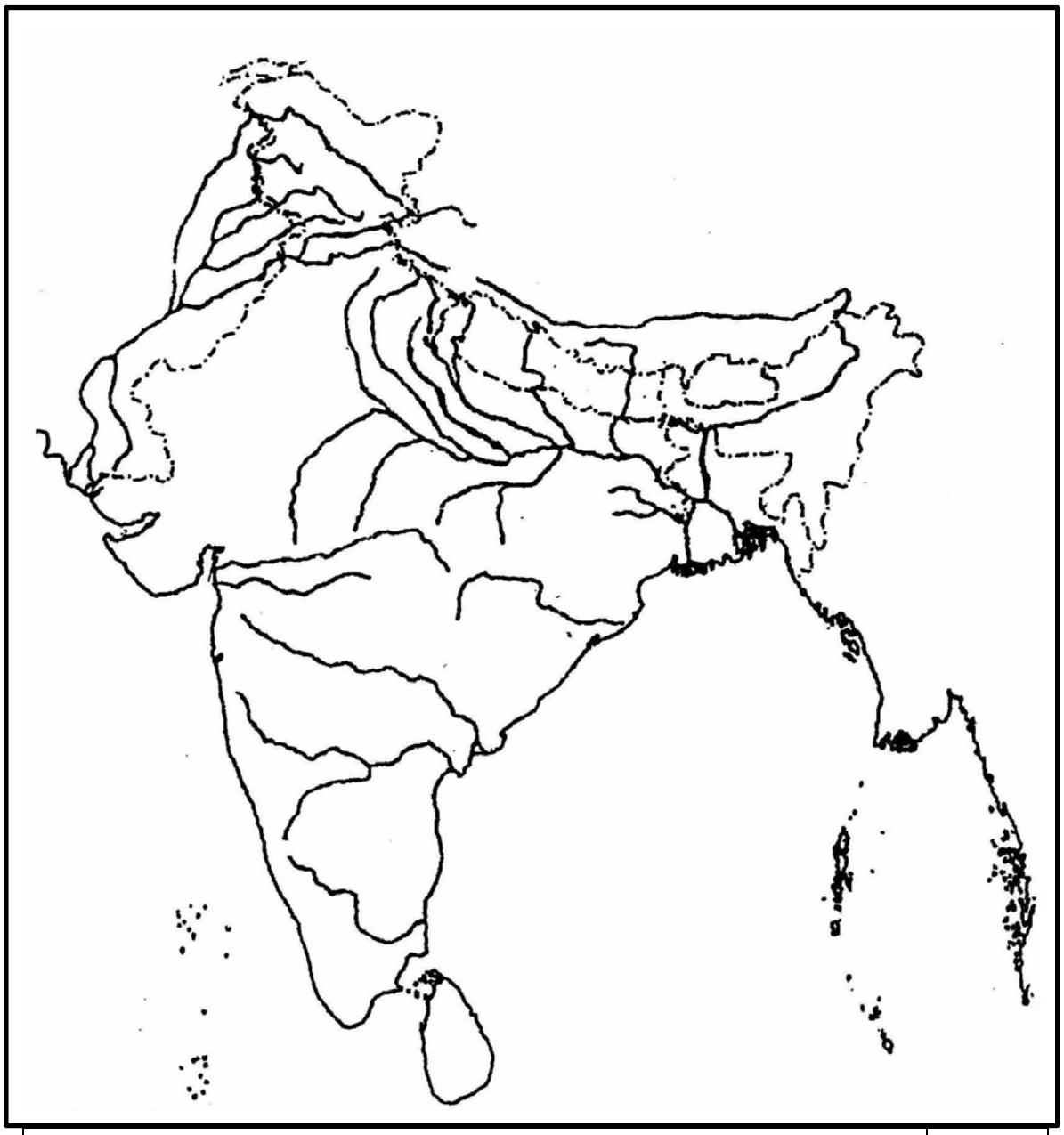
(iv) Mention *three* ways to reuse waste that is generated at home. [3]

Question No. 2

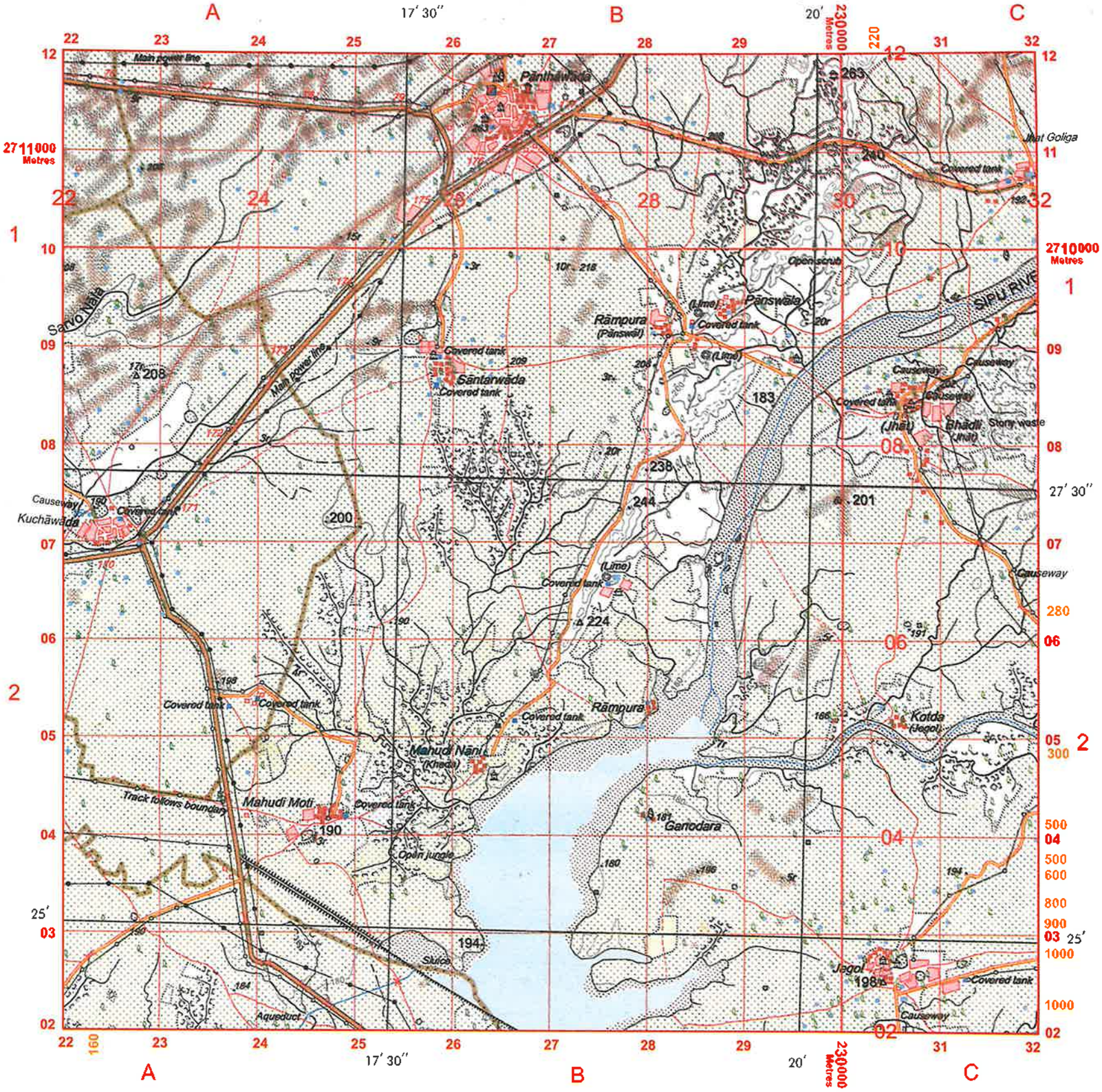
Index No……. UID……..

(This map, if used, must be fastened with all other answers)

Map of India for Question 2.



ONLY FOR THE EXAMINER										
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	Total



1 : 50,000

500 m to 1 cm — 2 cm to 1 km

Metres 1000 500 0 1 2 3 Kilometres

CONTOUR INTERVAL 20 METRES

NOTES :

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, e.g., *.8r,* represents the approximate height, in metres, between the top and bottom of steep slope.
A relative height, e.g., *30r,* against a well indicates its total depth in metres.
Tanks, shown dry, in this area usually contain water from July to February.
Unmetalled roads and cart-tracks in this sheet are generally motorable (four-wheel drive) in dry season.
Diggi is a tank which is used for collection of water.

Express highway: with toll; with bridge; with distance stone	
Roads, metalled: according to importance	
Roads, double carriageway: according to importance	
Unmetalled road. Cart-track. Pack-track with pass. Foot-path	
Streams: with track in bed; undefined. Canal	
Dams: masonry or rock-filled; earthwork. Weir	
River: dry with water channel; with island & rocks. Tidal river	
Submerged rocks. Shoal. Swamp. Reeds	
Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry	
Embankments: road or rail; tank. Broken ground	
Railways, broad gauge: double; single with station; under constrn.	
Railways, other gauges: double; single with distance stone; do	
Mineral line or tramway. Kiln. Cutting with tunnel	

Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage	
Mine. Vine on trellis. Grass. Scrub	
Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees	
Areas: cultivated; wooded. Surveyed tree	
Boundary, international	
" state: demarcated; undemarcated	
" district; subdivision, tahsil or tāluk; forest	
Boundary pillars: surveyed; unlocated.	
Heights, triangulated: station; point; approximate.	△ 200 . 200 .200
Bench-mark: geodetic; tertiary; canal	.BM 63·3 .BM 63·3 .63
Post office. Overhead tank	
Rest house or Inspection bungalow. Circuit house. Police station	

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

PHYSICS

(SCIENCE PAPER 1)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

***Section A** is compulsory. Attempt **any four** questions from **Section B**.*

The intended marks for questions or parts of questions are given in brackets [ ].

SECTION A

*(Attempt **all** questions from this Section.)*

Question 1

Choose the correct answers to the questions from the given options. [15]

(Do not copy the question, write the correct answers only.)

(i) A moment of couple has a tendency to rotate the body in an anticlockwise direction. Then the moment of couple is taken as:

(a) positive

(b) negative

(c) maximum

(d) zero

(ii) The kinetic energy of a given body depends on the:

(a) position

(b) centre of gravity of the body.

(c) momentum

(d) displacement

(iii) For burning of coal in a thermoelectric station, the energy conversion taking place is:

(a) chemical to heat to mechanical

(b) chemical to heat to mechanical to electrical

(c) chemical to heat to light

(d) heat to chemical to mechanical

(iv) A nucleus of an atom consists of 146 neutrons and 95 protons. It decays after emitting an alpha particle. How many protons and neutrons are left in the nucleus after an alpha emission?

(a) protons = 93, neutrons = 144

(b) protons = 95, neutrons = 142

(c) protons = 89, neutrons = 144

(d) protons = 89, neutrons = 142

(v) Assertion: Infrared radiations travel long distances through dense fog and mist.

Reason: Infrared radiations undergoes minimal scattering in earth's atmosphere

(a) both assertion and reason are true.

(b) both assertion and reason are false.

(c) assertion is false but reason is true.

(d) assertion is true reason is false.

(vi) For a convex lens, the minimum distance between an object and its real image in terms of focal length (f) of a given lens must be:

(a) 1.5 f

(b) 2.5 f

(c) 2 f

(d) 4 f

(vii) Two sound waves X and Y have same amplitude and same wave pattern, but their frequencies are 60 Hz and 120 Hz respectively, then:

(a) X will be shriller and Y will be grave

(b) X will be grave and Y will be shriller

(c) X will differ in quality than Y

(d) X is louder than Y.

(viii) Vibrations produced in a body under the influence of the periodic force is;

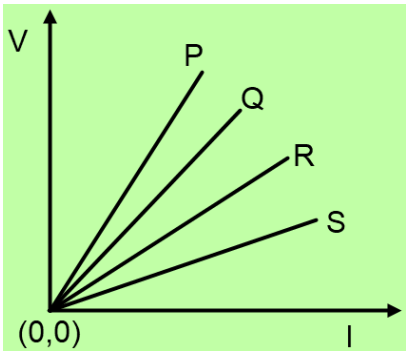
(a) forced vibrations

(b) resonant vibrations

(c) damped vibrations

(d) sympathetic vibrations

(ix) The graph of voltage vs current for four different materials is shown below.



Which of these four materials would be used for making the coil of a toaster?

(a) Q

(b) S

(c) P

(d) R

(x) According to the old convention the colour of the earth wire is:

(a) black

(b) green

(c) yellow

(d) red

(xi) Lenz's law is based on the law of conservation of:

(a) force

(b) charge

(c) mass

(d) energy

(xii) Heat capacity of a body is:

(a) the energy needed to melt the body without the change in its temperature

(b) the energy needed to raise the temperature of the body by 1°C

(c) the increase in the volume of the body when its temperature increases by 1°C

(d) the total amount of internal energy that is constant.

(xiii) The amount of heat energy required to melt a given mass of a substance at its melting point without rise in its temperature is called:

(a) specific heat capacity

(b) specific latent heat of fusion

(c) latent heat of fusion

(d) specific latent heat of freezing

(xiv) When a ray of light enters from a denser medium to a rarer medium then:

(a) the light ray bends towards the normal

(b) the speed of light increases

(c) the angle of incidence is greater than the angle of refraction

(d) its wavelength decreases.

(xv) An endoscope uses optical fiber to transmit high resolution images of internal organs without loss of information. The phenomenon of light that governs the functioning of the optical fiber is:

(a) refraction

(b) reflection

(c) scattering

(d) total internal reflection.

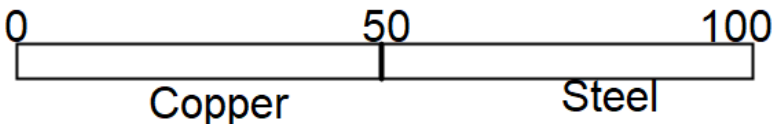
Question 2

(i) (a) Name the principle on which a lever works. [3]

(b) Which radiations that are emitted during the decay of a nucleus, having highest penetrating power?

(c) Does the emission of the above-mentioned radiation result in a change in the mass number?

(ii) [2]

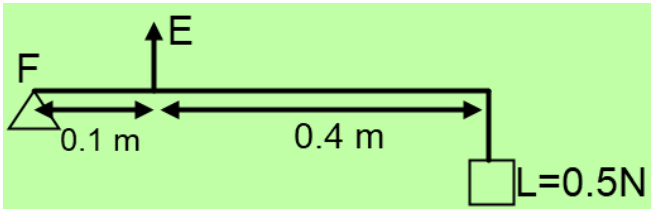


A metre rod made of copper and steel as shown in the diagram. Weights of copper and steel are 10 N and 8 N respectively.

(a) On which part does the centre of gravity lie (0 to 50 or 50 to 100).

(b) Justify your answer.

(iii) A lever is shown below. [2]



(a) Identify the type of lever.

(b) Calculate its mechanical advantage.

(iv) Two bodies A and B have same kinetic energies. Compare their velocities if mass of A is four times the mass of B. [2]

(v) Draw a graph of potential energy vs height from the ground for a body thrown vertically upwards. [2]

(vi) Two copper wires A and B are of the same thickness and are at the room temperature. If the length of A is twice the length of B then: [2]

(a) Compare their resistances

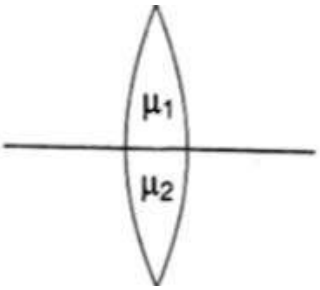
(b) Compare their resistivities

(vii) (a) Name the waves used for echo depth sounding. [2]

(b) Give one reason for their use in the above application.

Question 3

(i) (a) Refer to the diagram given below. A lens with two different refractive indices is shown. If the rays are coming from a distant object, then how many images will be seen? [2]



(b) A glass lens always forms a virtual, erect and diminished image of an object kept in front of it. Identify the lens.

(ii) It is observed that the house circuits are arranged in a parallel combination. Give two advantages of this arrangement. [2]

(iii) A transformer is used to change a high alternating e.m.f. to a low alternating e.m.f. of the same frequency. [2]

(a) Identify the type of transformer used for the above purpose.

(b) State whether the turns ratio of the above transformer is =1 or >1 or <1.

(iv) A solid of mass 60 g at 100°C is placed in 150 g of water at 20°C. The final steady temperature is 25°C. Calculate the heat capacity of solid. [2]

[sp. heat capacity of water = 4.2 J g^{-1} K^{-1}]

(v) What is a nuclear waste? State one method to dispose it safely. [2]

SECTION B

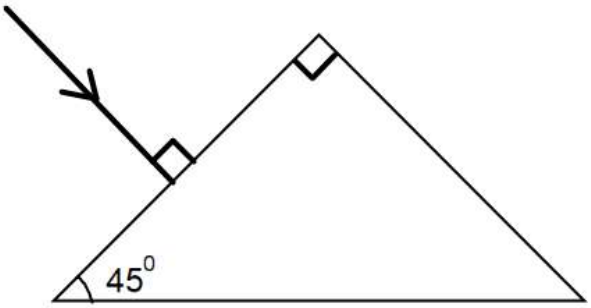
*(Attempt **any four** questions.)*

Question 4

(i) The diagram below shows a fish in the tank and its image seen in the surface of water. [3]

(a) Name the phenomenon responsible for the formation of this image.

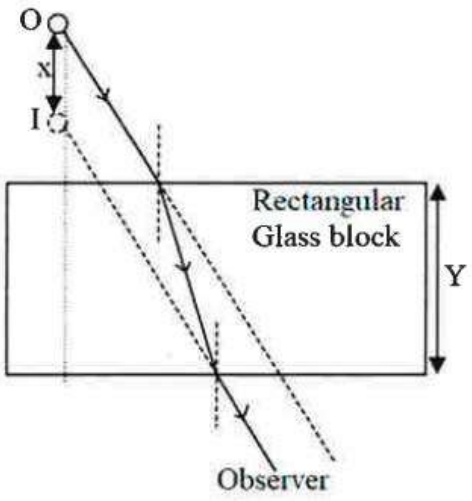
(b) Complete the path of the ray through the glass prism of critical angle 42^o till it emerges out of the prism.



(ii) (a) The refractive index of water is 1.33 at a certain temperature. When the temperature of water is increased by 40^{o}C, the refractive index changes to 'x'. State whether x < 1.33 or x > 1.33. [3]

(b) State two differences between normal reflection and total internal reflection.

(iii) [4]



The above diagram shows that an observer sees the image of an object O at I.

(a) Name and define the phenomenon responsible for seeing the image at a different position.

(b) State the effect on X when:

1. Y increases
2. Y decreases

Question 5

(i) An object is placed at a distance 24 cm in front of a convex lens of focal length 8 cm. [3]

(a) What is the nature of the image so formed?

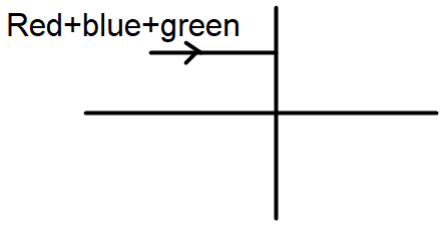
(b) Calculate the distance of the image from the lens.

(ii) When sunlight passes through water droplets in the atmosphere it gets dispersed into its constituent colours forming a rainbow. A similar phenomenon is observed when white light passes through a prism. [3]

(a) Which colour will show the maximum angle of deviation and which colour will show the minimum angle of deviation?

(b) If instead of sunlight, a green-coloured ray is passed through a glass prism. What will be the colour of the emergent ray?

(iii) (a) Mixture of red+blue+green is passed through a convex lens as shown in the diagram below. State whether the ray passes through a single point or through different points on principle axis after refraction. [4]



(b) Name the invisible radiations which can be obtained using quartz prism? State one use of these radiations.

(c) Name one radiations having wavelenght longer than the wavelength of these radiations.

Question 6

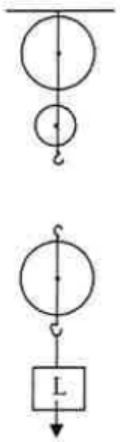
(i) [3]

Sumit and Sachin went for a trek and during the journey they visited a cottage. They suspended their bags to the two ropes hanging from P and Q on a wheel capable of rotating around O. Sumit suspended his bag to the rope Q and Sachin suspended his bag from the rope P. The wheel remained in equilibrium.

(a) State with a reason who is carrying a heavier bag.

(b) Based on the principle of moments, write a mathematical relation that can be used to determine the weight (W) of Sachin's bag, given that the weight of Sumit's bag is 18 kgf.

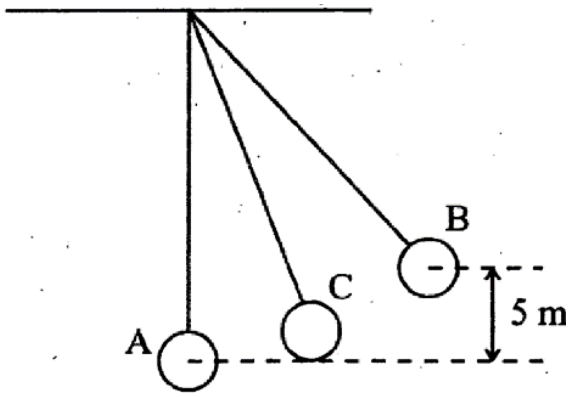
(ii) The diagram below shows a block and tackle system. [3]



(a) Copy and complete the labelled diagram showing the correct connection of the tackle, the direction of the forces involved to obtain maximum V.R. with the convenient direction.

(b) Calculate the M.A. of this pulley system if its efficiency is 80%.

(iii) The figure below shows a simple pendulum of mass 200 g. It is displaced from the mean position A to the extreme position B. The potential energy at the position A is zero. At the position B the pendulum bob is raised by 5 m. [4]



(a) What is the potential energy of the pendulum at the position B?

(b) What is the total mechanical energy at point C?

(c) What is the speed of the bob at the position A when released from B?

(Take g = 10 ms^{-2} and given that there is no loss of energy.)

Question 7

(i) A person standing in front of a cliff fires a gun and hears its echo after 3s. If the speed of sound in air is 336 ms^{-1}. [3]

(a) Calculate the distance of the person from the cliff.

(b) After moving a certain distance from the cliff, he fires the gun again and this time the echo is heard 1.5 s later than the first. Calculate distance moved by the person.

(ii) A radioactive nucleus X emits an alpha particle followed by two beta particles to form nucleus Y. [3]

(a) With respect to the element X, where would you position the element Y in the periodic table?

(b) What is the general name of the element X and Y.

(c) If the atomic number of Y is 80 then what is the atomic number of X?

(iii) A boy tunes a radio channel to a radio station 93.5 MHz. [4]

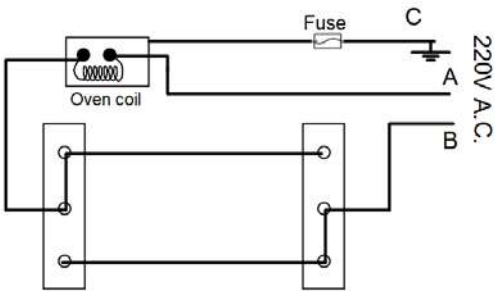
(a) Name and define the scientific wave phenomenon involved in tuning the radio channel.

(b) Name the important characteristics of sound that is affected during this phenomenon.

(c) Convert 93.5 MHz to SI unit.

Question 8

(i) Purvi's friend Tim wants to connect a fuse to his oven. He wants to control the oven from two different locations. Shown below is his circuit diagram. [3]



(a) Which one of the two, A or B should be a live wire?

(b) In the event of an overload, will the fuse serve its purpose?

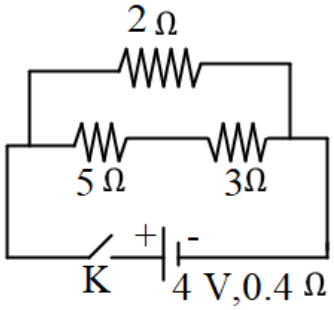
(c) What is the meaning of the statement that the bulb is rated 600W, 220 V?

(ii) (a) Copy and complete the following nuclear reaction. [3]

$^{222}_{86}Rn \rightarrow {}^{218}_{84}Po + \_X$

(b) What will be the effect on the radiation X, emitted in the above reaction when it is allowed to pass through an electric field?

(iii) Observe the given circuit diagram and answer the questions that follow: [4]



(a) Calculate the resistance of the circuit when the key K completes the circuit.

(b) Calculate the current through 3Ω resistance when the circuit is complete.

Question 9

(i) What mass of ice at 0°C added to 2.1 kg water, will cool it down from 75°C to 25°C? [3]

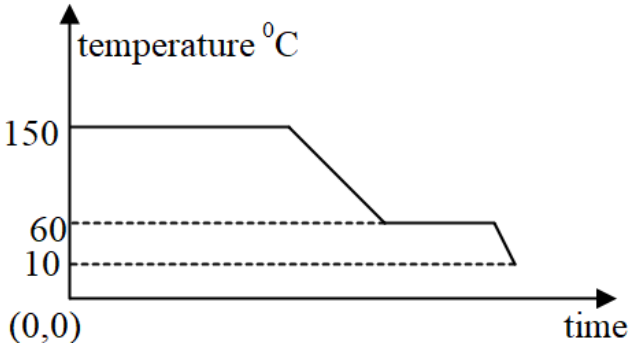
Given Specific heat capacity of water = 4.2 $Jg^{-1}\ ^oC^{-1}$,

Specific latent heat of ice = 336 jg^{-1}.

(ii) The diagram below shows a cooling curve for a substance: [3]

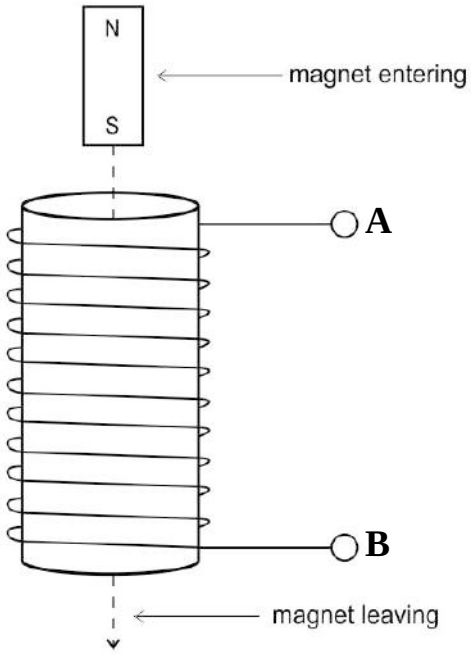
(a) State the temperatures at which the substance condenses.

(b) The temperature range in which the substance is in liquid state.



(c) Why do we prefer ice to ice-cold water for cooling a drink?

(iii) A magnet is released along the axis of a copper coil as shown in the diagram. [4]



(a) State the polarity at the top end of the coil when the magnet leaves the coil.

(b) The direction of the current is from A to B when magnet enters the coil. What will be the direction of the current when the magnet leaves the coil.

(c) Name the law which can be used to determine the direction of the induced current in the coil?

(d) State one way to increase the magnitude of the induced current in the coil?

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

CHEMISTRY

(SCIENCE PAPER – 2)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

***Section A** is compulsory. Attempt **any four** questions from **Section B**.*

The intended marks for questions or parts of questions are given in brackets [ ].

SECTION A

*(Attempt **all** questions from this Section.)*

Question 1

Choose the correct answers to the questions from the given options. [15]

(Do not copy the question, write the correct answers only.)

(i) An aqueous solution of copper sulphate turns colourless on electrolysis.

Which of the following could be the electrodes?

P. anode: copper; cathode: copper

Q. anode: platinum; cathode: copper

R. anode: copper; cathode: platinum

(a) only P

(b) only Q

(c) only R

(d) both Q and R

(ii) A compound P is heated in a test tube with sodium hydroxide solution. A red litmus paper held at the mouth of the test tube turns blue.

Which of the following could compound P be?

(a) zinc sulphate

(b) copper sulphate

(c) ferrous sulphate

(d) ammonium sulphate

(iii) The atomic masses of sulphur (S), oxygen (O), and helium (He) are approximately 32, 16, and 4 respectively.

Which of the following statements regarding the number of atoms in 32 g of sulphur, 16 g of oxygen, and 4 g of helium is correct?

P. 16 g of oxygen contains four times the number of atoms as 4 g of helium.

Q. 16 g of oxygen contains half the number of atoms as 32 g of sulphur.

(a) only P

(b) only Q

(c) both P and Q

(d) neither P nor Q

(iv) Ammonia gas is passed through quicklime and then collected in a jar. Red and blue litmus papers are placed in the jar. W, X, Y and Z are the four observations.

Which of the above observations correctly shows the reaction of the litmus papers to ammonia?

	Red litmus paper	**Blue litmus paper**
W	turns blue	remains blue
X	remains red	remains blue
Y	remains red	turns red
Z	turns blue	turns red

(a) W

(b) X

(c) Y

(d) Z

(v) Glucose reacts with concentrated sulphuric acid to give a very pure form of carbon called sugar charcoal.

The reaction taking place is:

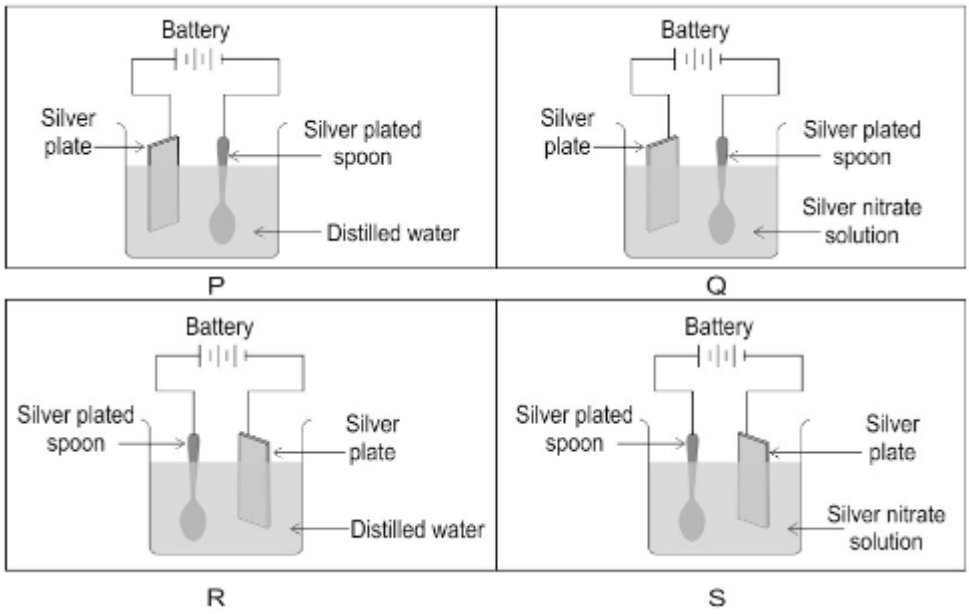
(a) oxidation

(b) combustion

(c) dehydration

(d) combination

(vi) In which of the following electrolytic cells [P, Q, R or S] will silver plating be done on the spoon?



(a) P

(b) Q

(c) R

(d) S

(vii) The basicity of acetic acid is:

(a) 1

(b) 2

(c) 3

(d) 4

(viii) $A \rightarrow A^{+3}$; $B \rightarrow B^{-1}$

Number of electrons present in the outermost shell of atoms A and B respectively are:

(a) 5, 1

(b) 3, 1

(c) 3, 7

(d) 5, 7

(ix) A _____ solution is observed after placing Magnesium metal in a solution of Copper sulphate for half an hour.

(a) Blue

(b) Colourless

(c) Reddish brown

(d) Dirty green

(x) An element with atomic no. _____ will form an acidic oxide.

(a) 5

(b) 17

(c) 11

(d) 13

(xi) Which of the following is NOT true with respect to nitric acid?

(a) It is a strong reducing agent

(b) It is a strong oxidizing agent

(c) It is unstable to heat

(d) It liberates sulphur dioxide gas when treated with potassium sulphite

(xii) _____ is the functional group in methanol.

(a) >C=O

(b) –OH

(c) –CHO

(d) –COOH

(xiii) The process of electrolysis is an example of:

(a) Oxidation reaction

(b) Reduction reaction

(c) Redox reaction

(d) Displacement reaction

(xiv) The catalyst used in Ostwald's process is _____.

(a) Finely divided iron

(b) Graphite

(c) Vanadium pentoxide

(d) Platinum

(xv) An element belongs to third period and sixteenth group. It will have _____ electrons in its valence shell.

(a) 2

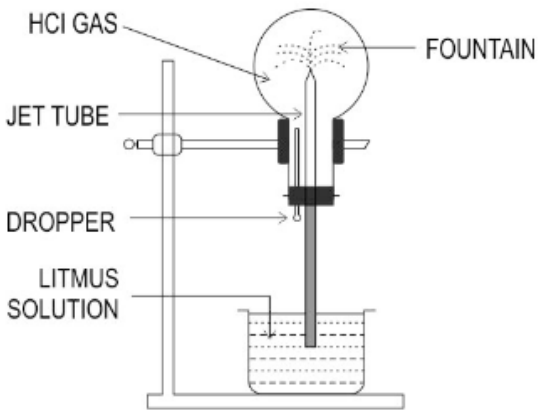
(b) 5

(c) 6

(d) 3

Question 2

(i) The setup shown below is that of the fountain experiment with hydrogen chloride gas in the flask. [5]



The fountain starts when a few drops of water from the dropper are introduced into the flask. Instead of the drops of water, Pooja started the fountain by introducing a few drops of Sodium hydroxide into the flask.

(a) Explain why the litmus solution gets sucked up when Sodium hydroxide is used.

(b) What will be the colour of the fountain when Sodium hydroxide is used? Justify your answer.

(c) If instead of HCl gas, ammonia gas is filled in the flask and water is introduced from the dropper, will there be a different observation? Justify your answer.

(ii) Match the following Column A with Column B. [5]

	Column A		Column B
(a)	Aluminium	1.	Covalent compound
(b)	Sulphuric acid	2.	Carbonate ore
(c)	Calcination	3.	Hall Heroult's process
(d)	Calcium Chloride	4.	Contact Process
(e)	Carbon tetrachloride	5.	Electrovalent compound

(iii) Complete the following by choosing the correct answers from the bracket: [5]

(a) If an element has one electron in the outermost shell then it is likely to have the _____ [smallest/ largest] atomic size amongst all the elements in the same period.

(b) _____ [sulphuric acid/ hydrochloric acid] does not form an acid salt.

(c) A _____ [reddish brown/ dirty green] coloured precipitate is formed when ammonium hydroxide is added to a solution of ferric chloride.

(d) Alkanes undergo _____ [addition/ substitution] reactions.

(e) An _____ [alkaline/acidic] solution will turn methyl orange solution pink.

(iv) Identify the following: [5]

(a) A bond formed between two atoms by sharing of a pair of electrons, with both electrons being provided by the same atom.

(b) A salt formed by the complete neutralization of an acid by a base.

(c) A reaction in which the hydrogen of an alkane is replaced by a halogen.

(d) The energy required to remove an electron from a neutral gaseous atom.

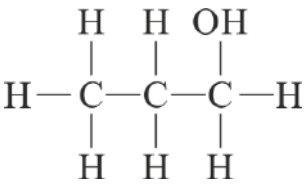
(e) A homogenous mixture of two or more metals or a metal and a non-metal in a definite proportion in their molten state.

(v) (a) Draw the structural diagram for the following compounds: [5]

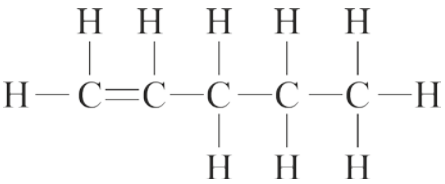
1. 1- propanal
2. 1, 2 dichloro ethane
3. But-2-ene

(b) Give the IUPAC name of the following organic compounds:

1.



2.



SECTION B

*(Attempt **any four** questions.)*

Question 3

(i) Identify the reactant and write the balanced equation for the following: [2]
Nitric acid reacts with compound Q to give a salt $Ca(NO_3)_2$, water and carbon dioxide.

(ii) What property of Sulphuric acid is exhibited in each of the following cases: [2]

(a) In the preparation of HCl gas when it reacts with Sodium chloride.

(b) When conc. Sulphuric acid reacts with Copper to produce Sulphur dioxide gas.

(iii) The electron affinity of an element X is greater than that of element Y. [3]

(a) How is the oxidising power of X likely to compare with that of Y?

(b) How is the electronegativity of X likely to compare with that of Y?

(c) State whether X is likely to be placed to the left or to the right of Y in the periodic table?

(iv) (a) State wether the following statements are TRUE or FALSE. Justify your answer. [3]

1. In an electrovalent compound, the cation attains the electronic configuration of the noble gas that comes after it in the periodic table.
2. In the formation of a compound PQ_2, atom P gives one electron to each atom of Q. The compound PQ_2 is a good conductor of electricity.

(b) Calculate the number of moles in 22 grams of carbon dioxide .

Question 4

(i) The following questions relate to the extraction of Aluminium by electrolysis. [2]

(a) Name the other aluminum containing compound added to alumina.

(b) Give a balanced equation for the reaction that takes place at the cathode.

(ii) A gas cylinder of capacity 40 dm^3 is filled with gas X the mass of which is 20 g. When the same cylinder is filled with hydrogen gas at the same temperature and pressure the mass of hydrogen is 2 g. Find the relative molecular mass of the gas. [2]

(iii) Give balanced equations for each of the following: [3]

(a) Action of warm water on Aluminium nitride.

(b) Oxidation of carbon with conc. Nitric acid.

(c) Dehydration of ethanol by conc. Sulphuric acid at a temperature of 170^oC.

(iv) With respect to Haber's process state the following: [3]

(a) Temperature of the reaction

(b) Catalyst used

(c) Balanced equation for the reaction occurring

Question 5

(i) (a) Ranjana wants to prove that ammonia is a reducing agent. To demonstrate this, she passes ammonia gas over heated copper oxide. What will she observe? [2]

(b) Write a balanced chemical equation for the above reaction.

(ii) Name the alloy which is made up of: [2]

(a) Copper, Zinc and Tin

(b) Lead and Tin

(iii) Seema takes a blue crystalline salt P in a test tube. On heating it produces a white anhydrous powder. P is dissolved in water. Zinc is added to one part of the solution and to another part of the solution Barium chloride is added. [3]

(a) Name the compound P.

(b) Mention one observation when zinc is added to the solution of P.

(c) State the colour of the precipitate formed when barium chloride is added to the solution of P.

(iv) Give reasons: [3]

(a) Ethene undergoes addition reaction.

(b) Hydrocarbons can be used as fuels.

(c) Hydrogen chloride gas cannot be collected over water.

Question 6

(i) Name the following: [2]

(a) The ore of Zinc containing its sulphide .

(b) The most commonly used oxide ore of Aluminium.

(ii) State one observation in the following cases: [2]

(a) Sodium chloride solution is added to a solution of lead nitrate.

(b) Barium chloride solution is added to a solution of Zinc sulphate.

(iii) Copper sulphate solution is electrolysed using copper electrodes. [3]

(a) Which electrode [cathode or anode] is the oxidizing electrode? Why?

(b) Write the equation for the reaction occurring at the above electrode.

(iv) X [2, 8, 7] and Y [2, 8, 2] are two elements. Using this information complete the following: [3]

(a) _____ is the metallic element.

(b) Metal atoms tend to have a maximum of _____ electrons in the outermost shell.

(c) _____ is the reducing agent.

Question 7

(i) The empirical formula of an organic compound is C_3H_4N. Its molecular weight is 108. Find the amount of carbon in one mole of the compound. Show all the steps involved. (Atomic weights: C- 12; H- 1; N- 14) [3]

(ii) (a) Mahesh has a basic solution X that has a pH 7. [3]
How will the pH of the solution X change on addition of the following:

1. Hydrochloric acid
2. a solution of a base

(b) The atomic number of an element is 15. To which group will this element belong to?

(iii) 8.2 grams of calcium nitrate is decomposed by heating according to the equation [4]

$2Ca(NO_3)_2$ _____ $\rightarrow 2CaO + 4NO_2 + O_2$

Calculate the following:

(a) Volume of nitrogen dioxide obtained at STP

(b) Mass of CaO formed

[Atomic weights: Ca –40 , N—14, O—16]

Question 8

(i) State giving reasons if: [2]

(a) zinc and aluminium can be distinguished by heating the metal powder with concentrated sodium hydroxide solution.

(b) calcium nitrate and lead nitrate can be distinguished by adding ammonium hydroxide solution to the salt solution.

(ii) Draw the electron dot diagram of Hydronium ion. [2]

(iii) Give balanced equations for the following: [3]

(a) Laboratory preparation of ethyne from calcium carbide.

(b) Conversion of acetic acid to ethyl acetate.

(c) Laboratory preparation of nitric acid.

(iv) Identify the following substances: [3]

(a) An alkaline gas which produces dense white fumes when reacted with HCl gas.

(b) The anion present in the salt, which produces a gas with the smell of rotten eggs when reacted with dil. HCl.

(c) The particles present in strong electrolytes.

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

BIOLOGY

(SCIENCE PAPER – 3)

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

***Section A** is compulsory. Attempt **any four** questions from **Section B**.*

The intended marks for questions or parts of questions are given in brackets [ ].

SECTION A

*(Attempt **all** questions from this Section.)*

Question 1

Choose the correct answers to the questions from the given options. [15]

(Do not copy the question, write the correct answers only.)

(i) Loss of water as droplets from the hydathodes is called:

(a) Transpiration

(b) Bleeding

(c) Guttation

(d) Evaporation

(ii) Synthesis phase in the cell cycle is called so, because of the synthesis of more:

(a) Glucose

(b) Proteins

(c) RNA

(d) DNA

(iii) While playing with his friends, Peter inserted a stick into his ear. He lost his hearing due to the rupture of:

(a) Ear drum

(b) Pericardium

(c) Cornea

(d) Pinna

(iv) The prime source of Chloro fluorocarbons is:

(a) Vehicular emissions

(b) Refrigeration equipment

(c) Sewage

(d) Effuents

(v) Oxygenated blood to heart is supplied by:

(a) Hepatic artery

(b) Coronary artery

(c) Renal artery

(d) Pulmonary artery

(vi) Assertion (A): There is frequent urination in summer than in winter.

Reason (R): In summer we lose a lot of water as sweat, so the kidneys reabsorb more water. Hence, urine formed is less in summer than in winter.

(a) Both A and R are True

(b) Both A and R are False

(c) A is True and R is False

(d) A is False and R is True

(vii) The age restrictions for marriage for boys and girls by law in India is:

(a) Boys 18 years, Girls 21 years

(b) Boys 17 years, Girls 16 years

(c) Boys 21 years, Girls 18 years

(d) Boys 20 years, Girls 17 years

(viii) Hari is fond of watching the fish in an aquarium. So, he set up an aquarium in his house. Along with a number of fresh water fish, he also placed a clown fish which is a salt water fish. After few hours, the clown fish was found dead and floating on water. This was due to:

(a) Endosmosis

(b) Exosmosis

(c) Osmoregulation

(d) Excretion

(ix) The solvent used for dissolving chlorophyll while testing a leaf for starch is:

(a) Sodium hydroxide

(b) Lime water

(c) Water

(d) Ethyl alcohol

(x) The structure related to storage and maturation of sperms in a human male is:

(a) Epididymis

(b) Epidermis

(c) Epithelium

(d) Endothelium

(xi) A sequence of DNA has 200 nitrogenous base pairs, of which 100 are Thymine-Adenine pairs. What is the number of Cytosine-Guanine pairs in this sequence:

(a) 50

(b) 200

(c) 100

(d) 25

(xii) The stress hormone in plants which functions during a drought is:

(a) Auxins

(b) Abscisic acid

(c) Ethylene

(d) Cytokinins

(xiii) Compressed natural gas (CNG) is proposed to be a better alternative to fossil fuel Which of the following reasons makes it a better alternative?

P. Combustion leaves little or no residue

Q. Absence of Carbon in CNG

R. Easily available

(a) Only P

(b) Only Q

(c) Only P and R

(d) Only Q and R

(xiv) The ground substance present in chloroplast is:

(a) Stoma

(b) Stroma

(c) Grana

(d) Thylakoids

(xv) Lata wanted to cross the road. She looked on either side of the road and then walked across to the other side of the road.

Which of the following is / are involved in the process described above?

1. Cerebrum

2. Cerebellum

3. Skeletal muscles

4. Medulla Oblongata

(a) Only 3

(b) Only 1 and 3

(c) Only 1, 3 and 4

(d) Only 1, 2 and 3

Question 2

(i) Name the following: [5]

(a) The respiratory pigment in Erythrocytes.

(b) The tissue that transports manufactured food from the leaves to all the parts of the plant.

(c) The type of gene, which in the presence of a contrasting allele, is not expressed.

(d) The duct which carries urine from the urinary bladder to outside the body.

(e) The collective term for the protective membranes of the brain.

(ii) Arrange and rewrite the terms in each group in the correct order so as to be in a logical sequence beginning with the term that is underlined. [5]

(a) Snake, <u>Grass</u>, Frog, Grasshopper

(b) Cochlea, Malleus, <u>Pinna</u>, Stapes

(c) Fibrin, Thrombin, Fibrinogen, <u>Platelets</u>

(d) Endodermis, Cortex, Xylem, <u>Epidermis</u>

(e) <u>Embryo</u>, Foetus, Blastocyst, Morula

(iii) Fill in the blanks with suitable words: [5]

The technical term for short sightedness is (a) _____. This defect is caused because the eyeball is (b) _____ from front to back or the lens is too (c) _____. It can be corrected by using a suitable (d) _____ lens. The power of the lens is mentioned in (e) _____.

(iv) Choose the odd one out from the following terms and name the category to which the others belong: [5]

(a) Newspapers, Vegetable peels, Electric bulbs, Animal excreta

(b) Renal pelvis, Renal artery, Renal Cortex, Renal medulla

(c) Urochrome, Urea, Keratin, Uric acid

(d) Oval window, Cochlea, Auditory canal, Round window

(e) ADH, TSH, ACTH, NADP

(v) Match the items given in Column I with the most appropriate ones in Column II and rewrite the correct matching pairs. [5]

	Column I		Column II
(a)	Spinal Cord	1.	Adrenalin
(b)	Adrenal medulla	2.	44
(c)	Number of autosomes in man	3.	Nephrons
(d)	Kidney	4.	46
(e)	Adrenal cortex	5.	Thyroxine
		6.	Neurons
		7.	Cortisones

SECTION B

*(Attempt **any four** questions from this Section.)*

Question 3

(i) The gene of red hair is recessive to the gene for black hair. What will be the hair colour of a person if he inherits a gene for red hair from his mother and a gene for black hair from his father? [1]

(ii) State Mendel's Law of Dominance. [2]

(iii) What are Homologous chromosomes? [2]

(iv) Differentiate between Phenotype and Genotype. [2]

(v) Draw a neat, labelled diagram of a duplicated chromosome. [3]

Question 4

(i) Mention the exact location of Corpus callosum. [1]

(ii) What are the two hormones secreted by Corpus luteum? [2]

(iii) Differentiate between Menarche and Menopause. [2]

(iv) What is the significance of placenta in the growth of foetus? [2]

(v) Draw a neat, labelled diagram of a human gamete that has the sex chromosome.Y [3]

Question 5

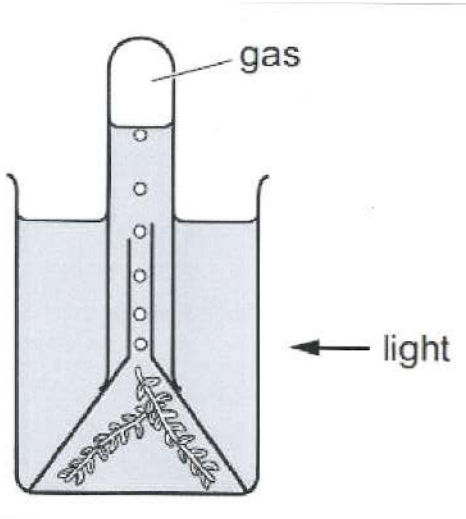
(i) Explain the term – Photsynthesis. [1]

(ii) Write the overall chemical equation of Photosynthesis. [2]

(iii) A potted plant having variegated leaves was exposed to sunlight for 3 hours. One of the leaves was plucked and tested for starch. What will be your observation after the starch test? [2]

(iv) The initial food prepared by a green plant is A, which is later converted to food B by polymerization. Name food A and food B. [2]

(v) Study the diagram given below and answer the questions that follow: [3]



(a) Name the gas released when the setup was placed in sunlight.

(b) Give an example of an aquatic plant that can be used in the above experiment.

(c) What will happen if a pinch of Sodium bicarbonate is added to the water?

Question 6

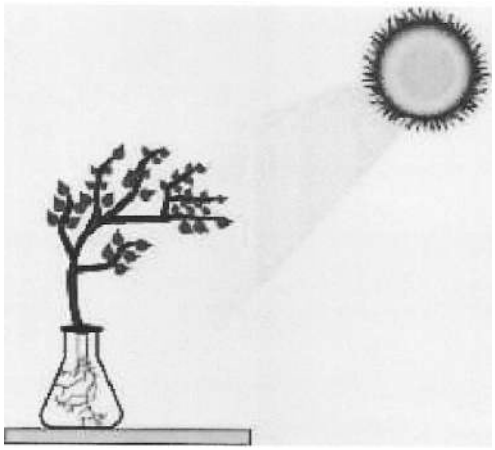
(i) Give the exact location of genes. [1]

(ii) Differentiate between Karyokinesis and Cytokinesis. [2]

(iii) Mention two significant features of the stage Anaphase during Mitosis. [2]

(iv) How many daughter cells are formed at the end of Mitosis and Meiosis? [2]

(v) Study the diagram given below and answer the questions that follow: [3]



(a) Name the phenomenon depicted by the shoot in the above diagram.

(b) Which plant hormone plays an important role in the above movement?

(c) Name one stimulus which gives a positive response for the roots but negative response for the shoot.

Question 7

(i) What is the scientific name for man? [1]

(ii) What are vestigial organs? Give one example. [2]

(iii) State two structural differences between an artery and vein. [2]

(iv) Mention any two features of the Cro-Magnon man. [2]

(v) Study the picture given below and answer the questions that follow: [3]

(a) Name the category of waste that is being disposed.

(b) Give an example of such a waste.

(c) Are they hazardous to humans and animals? Give a suitable reason to justify your answer.

Question 8

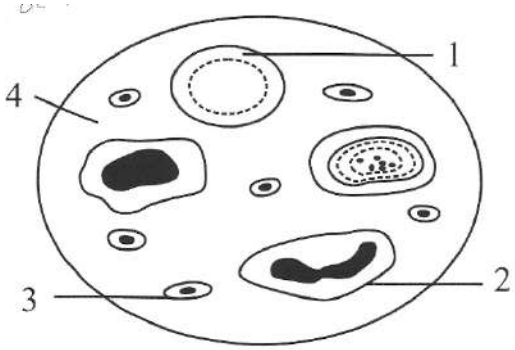
(i) Define – Osmosis. [1]

(ii) Name the two sensory cells in retina meant for light adaptation. [2]

(iii) Mention one function each for – Cerebrum and Cerebellum. [2]

(iv) State any two objectives of *Swachh Bharat Abhiyan*. [2]

(v) Given below is the diagram of human blood smear. Answer the questions that follow: [3]



(a) Mention one structural difference between 1 and 2.

(b) What is the function of part 3?

(c) Name the part labelled 4.

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

PHYSICAL EDUCATION

Maximum Marks: 100

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

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*Attempt **all** questions from **Section A** and **two** questions from **Section B.***

The intended marks for questions or parts of questions are given in brackets[ ].

SECTION A

*(Attempt **all** questions from this **Section**.)*

Question 1 [20]

Choose the correct answers to the questions from the given options.

(Do not copy the questions, write the correct answers only.)

(i) Identify the process in the following picture.

(a) Physical fitness

(b) Growth

(c) Mental development

(d) Psychological development

(ii) The form of nutrition in which the intake of nutrients is oversupplied is known as _____.

(a) Undernutrition

(b) Overnutrition

(c) Special diet

(d) Staple diet

(iii) What is the full form of ACL?

(a) Anatomy Cruciate Ligament

(b) Anterior Cramp Ligament

(c) Anatomy Collateral Ligament

(d) Anterior Cruciate Ligament

(iv) This injury is characterised by pain in the front part of lower leg _____.

(a) Sprained ankle

(b) Shin splint

(c) Stress fracture

(d) Tennis elbow

(v) The passing of traits from parents to their offspring is known as:

(a) Puberty

(b) Infancy

(c) Childhood

(d) Heredity

(vi) This principle of Sports Training suggests that minor changes in training regime yields more consistent gain in sports performance.

(a) Principle of reversibility

(b) Principle of adaptation

(c) Principle of variance

(d) Principle of specificity

(vii) Which among these is not a macronutrient?

(a) Lipids

(b) Carbohydrate

(c) Protein

(d) Vitamins

(viii) Being able to change direction quickly in a game of Basketball is a good example of which skill related component?

(a) Co-ordination

(b) Speed

(c) Power

(d) Agility

(ix) The unit used to describe the energy content of food is called _____.

(a) Calorie

(b) Nutrition

(c) Meal planning

(d) Balanced diet

(x) The power that helps to lift and carry objects is _____.

(a) Muscular strength

(b) Cardiovascular endurance

(c) Agility

(d) Co-ordination

(xi) Which option is not a prevention of an injury?

(a) Warming up and cooling down to be done

(b) Fitness of the participant

(c) Proper Training of skills

(d) Not resting between workout, using faulty skills and equipment

(xii) Given below are the two statements labelled Assertion (A) and Reason (R).

Assertion: The athlete's workout gain and progress will be lost when he stops training.

Reason: A regular training stimulus is not required to maintain adaptations.

In the context of the above two statements, which one of the following is correct?

(a) Both (A) and (R) are true and (R) is the correct explanation of (A)

(b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)

(c) (A) is true, but (R) is false

(d) (A) is false, but (R) is true

(xiii) Which among the following is NOT the objective of physical education?

(a) Physical development

(b) Recreation and fun

(c) Social development

(d) Psychological development

(xiv) The ability to stay upright in control of body movement is called as _____.

(a) Balance

(b) Strength

(c) Power

(d) Endurance

(xv) The _____ is not a factor which affects our diet.

(a) Age

(b) Gender

(c) Body weight

(d) Personality

(xvi) An ankle sprain is an example of _____.

(a) Soft tissue injury

(b) Concussion

(c) Bone fracture

(d) Abrasion

(xvii) According to the principle of Overload, which of the following statement is correct?

(a) There should be greater load on the body than the normal load

(b) There should not be greater load on the body than the normal load

(c) Training load should remain static

(d) Training load should be extreme

(xviii) The _____ is the range of motion of muscle and connective tissues at a joint or group of joints.

(a) Flexibility

(b) Power

(c) Accuracy

(d) Balance

(xix) Periodization means:

(a) The regular training of sports and games

(b) The irregular workout during sports and games

(c) The specific process of training and work load every day.

(d) The systematic planning of athletic or physical training

(xx) Match the following:

(I)	Cardiovascular endurance	1)	Sit and reach test.
(II)	Muscular endurance.	2)	The ball toss test.
(III)	Flexibility.	3)	Push up test.
(IV)	Co-ordination.	4)	The cooper run test.

(a) I-1. II-3, III-4, IV-2.

(b) I-3, II-4, III-2, IV-1.

(c) I-4, II-3, III-1, IV-2.

(d) I-2, II-3, III-4, IV-1.

Question 2

(i) Define the term development. [2]

(ii) What is plantar fasciitis injury? [2]

(iii) List *any three* main objectives of physical education. [3]

(iv) What is a concussion? State *any two* symptoms of concussion. [3]

Question 3

(i) What is accuracy? [2]

(ii) Explain the term nutrition. [2]

(iii) State *any three* preventive measures to be taken in order to avoid Sports Injuries. [3]

(iv) State *any three* characteristics of endomorph body. [3]

Question 4

(i) During one of the league matches of the CISCE Football Tournament Amar, one of the players of the Global Modern school tripped and fell down due to a tackle from an opponent and was injured. He had difficulty in standing up. The referees ran immediately to the spot of the incident, Akbar the coach was called on to the field to attended to Amar. Anthony another team player of Amar's team had certain queries which are listed below. Kindly clear the doubts of Anthony by answering the following questions? [2]

1. If there is a broken bone it will be a:
   - (a) Shin Splint
   - (b) Contusion
   - (c) Concussion
   - (d) Fracture
2. In case of sprain the first-aid given will be
   - (a) Give massage to affected part
   - (b) Wait till the doctor arrives
   - (c) PRICER
   - (d) Apply muscle relaxant ointment

(ii) Define the term health education. [2]

(iii) State *any three* responsibilities of a commentator. [3]

(iv) What is hip bursitis? State *any two* causes of hip bursitis injury. [3]

SECTION B

*(Attempt **two** questions from this Section.)*

*(You must attempt **one** question on each of the two games of your choice.)*

CRICKET

Question 5

(i) Explain the following terms: [8]

(a) Free hit

(b) Wooden spoon

(c) Reverse swing

(d) Late cut

(ii) (a) Explain *danger area* on the cricket pitch. [9]

(b) When is a batter said to be run out? Explain.

(c) Mention *any three* fielding positions on the on side of the field.

(iii) (a) What do you mean by *sledging*? [8]

(b) Explain the term *short run*.

(c) What is a *bouncer*?

(d) Explain the term *middle order*.

Question 6

(i) Explain the following terms in cricket: [8]

(a) Duck

(b) Stance

(c) Out swing

(d) Beamer

(ii) (a) What is meant by obstructing the field? [9]

(b) Write the following:

1. Length of the bat.
2. Length of the Cricket pitch.
3. Height of the stumps when pitched.

(c) What is the importance of *30 yard circle*?

(iii) (a) List *any four* compulsory equipment used by the batsman in cricket. [8]

(b) Explain the term *run up* in cricket.

(c) What do you mean by the term *substitute*?

(d) Explain the term *Bodyline Bowling* in cricket.

FOOTBALL

Question 7

(i) Write short note on: [8]

(a) Halfway line

(b) Penalty mark

(c) Full time

(d) Final pass

(ii) (a) Differentiate between short pass and long pass in football. [9]

(b) Write *any three* occasions when the ball is said to be out of play in the game of football.

(c) When is a corner kick awarded and from where is it taken?

(iii) (a) What is the shape and circumference of the ball? [8]

(b) Explain the term a *through pass*.

(c) What is *penalty arc*?

(d) Explain the term *set piece*.

Question 8

(i) Explain the following terms in football: [8]

(a) Back heel

(b) Place kick

(c) Yellow card

(d) Extra time

(ii) (a) Write down the procedure of substitution during the game. [9]

(b) State *any three* duties of referee during the match.

(c) State *any three* fouls for which the referee can show a yellow card to the player.

(iii) (a) Draw a neat labelled diagram of goalpost with all its measurements. [8]

(b) Mention *four* instances for which a direct free kick is awarded.

HOCKEY

Question 9

(i) Explain the following terms: [8]

(a) 23 m area

(b) Center mark

(c) Free hit

(d) Aerial

(ii) (a) What do you mean by *reverse stick* in hockey? [9]

(b) Mention *any three* duties of the table official.

(c) Explain the procedure of penalty corner.

(iii) (a) Write the full form of FIH and IHF. [8]

(b) What do you mean by *tackling*?

(c) Explain the term *astro turf.*

(d) List *any four* equipment that a goalkeeper should wear during the game.

Question 10

(i) Explain the following terms in hockey: [8]

(a) Shooting

(b) Midfielder

(c) A back stick

(d) Flat stop trapping

(ii) (a) When is the ball out of play in the game of hockey? [9]

(b) Write *any three* duties of a coach in hockey.

(c) Explain procedure of center pass in hockey.

(iii) (a) Explain how *substitution* is done in hockey. [8]

(b) What do you mean by the term *bully*?

(c) Explain the term *sweep pass* in hockey.

(d) Explain the term *carry the ball*.

BASKETBALL

Question 11

(i) Explain the following terms: [8]

(a) Back court

(b) Center line

(c) 24 second rule

(d) Violation

(ii) (a) Explain the *'5' second rule* in basketball. [9]

(b) Give *any three* jump ball situations in basketball.

(c) Explain the term *game lost by default*.

(iii) (a) What do you mean by *Double dribble*? [8]

(b) Explain the term *goal tending*.

(c) Explain the *Three second rule*.

(d) What do you mean by *technical foul*?

Question 12

(i) Explain the following terms: [8]

(a) A foul

(b) Match commissioner

(c) Low dribble

(d) Slam dunk

(ii) (a) Explain the term *lay up shot*. [9]

(b) What is *pivoting*? State *any two* categories of pivoting.

(c) Mention *any three* rules of *throw-in* related to basketball.

(iii) (a) Explain the term a *direct shot.* [8]

(b) What is *zone defence*?

(c) Explain the term *defensive rebounding*.

(d) What do you mean by *pushing* in Basketball?

VOLLEYBALL

Question 13

(i) Explain the following terms in volleyball: [8]

(a) Center line

(b) Penalty area

(c) Block and team hit

(d) Libero

(ii) (a) When the ball is considered in play and out of play? [9]

(b) List *any three* duties of coach.

(c) What is *spiking* and how is it performed?

(iii) (a) What do you mean by *Overlapping*? [8]

(b) What is a *rally*?

(c) Explain the term *ace*.

(d) What is meant by *single block*?

Question 14

(i) Explain the following terms in volleyball: [8]

(a) Side out

(b) Substitution

(c) A catch

(d) Free zone

(ii) (a) What is the height, length and breadth of the net? [9]

(b) Name *any three* national tournaments of volleyball.

(c) Explain the term *net violation* in volleyball.

(iii) Draw a neat diagram of volleyball court and mark the following: [8]

(a) Side line

(b) Attack zone

(c) Service line

(d) Attack line

(e) Back court

(f) Length and width of ground

BADMINTON

Question 15

(i) Explain the following terms: [8]

(a) Service court

(b) Back alley

(c) Long service line

(d) Jump smash

(ii) (a) Explain the term *drive* in Badminton. [9]

(b) When is a shuttle not in play?

(c) Explain the term *clear shot* in Badminton.

(iii) (a) What do you mean by *lobbing*? [8]

(b) Explain the term *long serve*.

(c) Explain the term *foot fault*.

(d) What do you mean by *net kill*?

Question 16

(i) Explain the following terms: [8]

(a) Flick

(b) Love

(c) Forehand grip

(d) Center service line

(ii) (a) Explain the rule of *scoring* and *serving in singles*. [9]

(b) State *any three* duties of umpire in a Badminton game.

(c) Explain the technique of drive serve in badminton.

(iii) (a) Name *any two* international tournaments of Badminton. [8]

(b) Explain the term *disqualification*.

(c) Explain the term *dead bird* in Badminton.

(d) What do you mean by *rally scoring* in Badminton?

ICSE 2024 EXAMINATION

SPECIMEN QUESTION PAPER

ENVIRONMENTAL SCIENCE

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Attempt **all** questions from **Section A** and **any four** questions from **Section B.***

The intended marks for questions or parts of questions are given in brackets [].

SECTION A

*(Attempt **all** questions from this **Section**.)*

Question 1 [16]

Choose the correct answers to the questions from the given options.
(Do not copy the question, write the correct answers only.)

(i) Which one of the following is a technique for controlling soil erosion?

(a) Contour ploughing

(b) Reforestation

(c) Energy Plantation

(d) Use of inorganic fertilizers.

(ii) The device which reduces air pollution from vehicles is:

(a) Spark plug

(b) Catalytic converter

(c) Scrubber

(d) Plate Tower

(iii) The objective of community forestry is:

(a) planting trees on the slopes of mountains

(b) forming self-help groups

(c) planting of trees by villagers on common lands and share the products

(d) replacing use of wood with other products.

(iv) In-situ conservation is a means:

(a) to provide a habitat for animals in the zoo.

(b) to protect and restore species in National parks and Sanctuaries.

(c) to conserve species that do not survive in the wild.

(d) to maintain endangered plants and animals under artificial conditions.

(v) The statistical study of human population with reference to size, density and other statistics is known as:

(a) Population ratio

(b) Demography

(c) Census

(d) Anthropology

(vi) Choose the correct pair from the following:

(a) Tarun Bharat Sangha → Gajendra Singh

(b) Ralegaon Siddhi → Anna Hazare

(c) Chipko Movement → Durga Bai

(d) Sukhomajri → Anna Hazare

(vii) Which form of electricity generation causes the most environmental damage?

(a) nuclear energy

(b) solar energy

(c) thermal energy from coal

(d) geothermal energy

(viii) The organisms responsible for composting and breaking down of dead organic matter are:

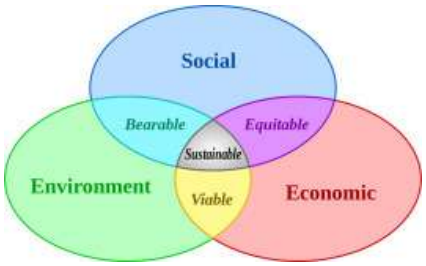
(a) Earth worms

(b) Microorganisms

(c) Scavengers

(d) Tape worms

(ix) The figure given alongside refers to the scheme of:



(a) Economic development

(b) Social life development

(c) Environment conservation

(d) Sustainable development

(x) Assertion(A): Three quarters of the world's population is inadequately fed so there is hunger and malnutrition in the developing countries.

Reason(R): The factors of food shortage in the developing countries are poverty, unsuccessful agriculture and inequal distribution in food supply.

(a) A is true and R is not the correct reason for A.

(b) A is false and R is not correct reason for A

(c) A is false but R is true

(d) Both A and R are true.

(xi) Statement A: The Multinational Companies can be controlled by NGOs to take responsibility of the environmental issues.

Statement B: NGOS are profitable organizations.

(a) Both statements A and B are correct.

(b) Statement A is correct, and Statement B is incorrect

(c) Statement A is incorrect and Statement B is correct

(d) Both statements A and B are incorrect.

(xii) Match Column 1 with Column 2 and choose the correct option from those given below?

	COLUMN 1		COLUMN 2
1.	Montreal Protocol	A.	Focuses on International waters and its diversion.
2.	CITES	B.	Check on greenhouse gases emission.
3.	GEF	C.	Conservation of endangered species.
4.	Kyoto Protocol	D.	Control of CFCs to prevent Ozone depletion.

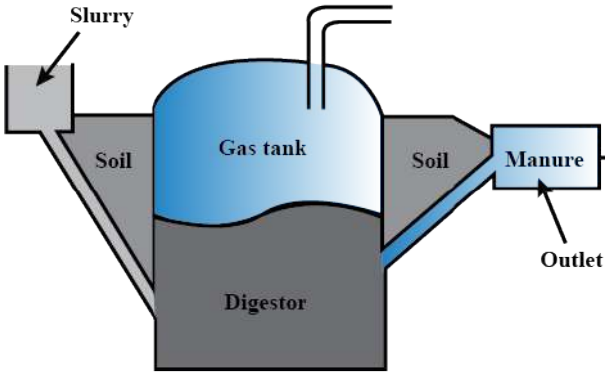
(a) 1 – A 2 – B 3 – C 4 – D

(b) 1 – B 2 – C 3 – B 4 – A

(c) 1 – D 2 – C 3 – A 4 – B

(d) 1 – C 2 – A 3 – D 4 – C

The following questions (xiii to xvi) are based on the figure given below. Answer these questions by choosing the correct option.



(xiii) The figure shows a structure from which a fuel is generated. Name the fuel generated from this structure.

(a) Gasoline

(b) Biodiesel

(c) Biogas

(d) LPG

(xiv) What is the main component of this gas that is generated from the above structure?

(a) Methane

(b) Oxygen

(c) Ammonia

(d) Carbon dioxide

(xv) How is this fuel obtained? It is obtained:

(a) by burning of coal

(b) by decomposition of agricultural waste, cow dung and leaves.

(c) by breaking down of crude oil

(d) by decomposition of sugar cane molasses

(xvi) How is the manure produced utilized?

(a) It is used as a pesticide in the soil to kill pests.

(b) It is sprayed on fruits to make them ripe faster.

(c) It is mixed with soil to make it rich with air.

(d) It is used as fertilizer to make the soil rich with nutrients.

Question 2

(i) India hosts 4 biodiversity hotspots: the Himalayas, the Western Ghats, the Indo-Burma region and the Nicobar group of Islands. What is Biodiversity hot spots? [2]

(ii) Mention two factors that cause food shortage in developing countries. [2]

(iii) Why is kerosene, as a fuel, more popular in rural India than urban area? [2]

(iv) Mention two measures that can be taken to control the undue changes in the climate? [2]

Question 3

(i) What are tree crops? How are they useful? [2]

(ii) Write the expanded form of IPM and what is the aim of this program? [2]

(iii) Give two reasons for loss of Biodiversity. [2]

(iv) What is radioactive fallout? Why is it dangerous? [2]

Question 4

(i) What is the difference between Sanitary land fill and Incineration? [2]

(ii) What is debt trap? Which countries are affected by this, the developed or the developing ones? [2]

(iii) What was the significance of UN's International Conference on Population and Development Conference, 1994? Where was it held? [2]

(iv) What does GEF stand for? What is its role at international level? [2]

SECTION B

*(Attempt **any four** questions from this **Section**.)*

Question 5

(i) Discuss five ways by which you can reduce air pollution from vehicles through traffic management. [5]

(ii) Define waste management. Explain the role of 3Rs in waste management. [5]

Question 6

(i) Why is energy conservation important? Write two advantages and two disadvantages of solar energy. [5]

(ii) The farming technique of conservation tillage is widely practiced in agriculture. What is conservation tillage? Write three advantages and two disadvantages of this technique. [5]

Question 7

(i) Secondary cities can play a major role to reduce pressure on metropolitan cities. Suggest five measures which can be developed in the secondary cities to stop migration of people into metro cities. [5]

(ii) What are green buildings. Write any four features of it. [5]

Question 8

(i) How can you reduce deforestation? Suggest five ways to combat deforestation. [5]

(ii) What do you understand by Global interdependence? Suggest three ways by which international cooperation can help in achieving a sustainable future. [5]

Question 9

(i) What effect does population explosion has on the environment and human health? [5]

(ii) What are the advantages of allowing a Multinational Company to set up its operation in the host country? Write two advantages and three disadvantages of MNC in the host country. [5]

Question 10

Read the following abstract and answer the questions that follow.

As the world becomes more and more urbanized, it's important to understand the effects this has on both people and nature.

Cities are engines of growth, but they also come with a cost. In this blog post, we'll explore some of the ways urban populations can impact our environment and our health. Urbanization is changing our planet – for better or for worse?

(Source) May 16, 2022 | Global Issues, Social Issues, Sustainability

(a) Write two causes which make people move to cities? [5]
What impact does Urbanization have on the environment of the city?

(b) Explain IUCN and write its role in categorizing and marking the species for conservation. [5]