

SAMPLE QUESTION PAPER (2024-25)
ENGLISH LANGUAGE AND LITERATURE
CLASS-X

Time allowed: 3 Hrs.

Maximum Marks: 80

General Instructions:

1. The Question Paper contains three sections-
READING, GRAMMAR & WRITING and LITERATURE.
2. Attempt questions based on specific instructions for each part.

SECTION A : READING SKILLS (20 marks)

Reading Comprehension

1. Read the following text and answer the questions. 10 marks

(1) As a high school student, studying poetry can be a rollercoaster ride. This journey is punctuated by moments of profound appreciation for simpler pieces and intermittent frustration with more complex works. Let's be real here -some poems are just plain confusing and no amount of re-reading seems to help decipher the intended meaning. The puzzlement that results from such instances can be both vexing and demotivating. If solving a riddle is what was intended, then playing Sudoku is a better option. One is led to ponder if obscurity was the goal.

(2) Conversely, some pieces resonate with the reader's soul. stirring feelings of warmth, happiness, and connection to the world. Often, these compositions centre on themes that are universally understood, such as love, nature, or faith. Being able to actually understand what the poet is trying to say can feel like a little victory and is a welcome relief after grappling with more perplexing poetry.

(3) Then there are poems that are emotionally charged; the ones that make the reader curl up in a ball and cry or jump up and down with joy. One is left in awe of the poet's ability to convey emotion through words. Let's not forget the downright weird poems. These are the ones that defy categorization and leave the reader to their own devices in attempting to interpret meaning. The author's use of figurative language and unconventional imagery can create a sense of bewilderment that is either intriguing or off-putting. Regardless, the reader can appreciate the uniqueness of the work.

(4) Despite the wide range of emotions and reactions that come with studying poetry, it can be a rewarding pursuit. Not only does reading poetry allow one to appreciate the artistic beauty of the written word but also enables one to develop crucial critical thinking and analytical skills. The process of unlocking a poem's meaning can feel like cracking a code or solving a puzzle but the sense of accomplishment derived from mastering a challenging piece can be deeply gratifying. Finally, impressing an English teacher with a well-analyzed poem can be a source of pride and validation.

(5) Overall, studying poetry is like a box of mixed chocolates, you never know what you're going to get. But whether it's complex, emotional, simple, or just downright weird, there's always something to be gained from the experience. So, let's applaud all the poets out there, for making us laugh, cry, scratch our heads, and occasionally feel like a genius.

Answer the following questions, based on the passage above.

i Which of the following statements best describes the author's attitude toward studying poetry? 1 mark

- A. Finds poetry to be a frustrating and meaningless endeavor.
- B. Believes that the emotional rollercoaster of studying poetry is not worth the effort.
- C. Recognizes the challenges of studying poetry but also acknowledges the rewards it offers.
- D. Feels that poetry is too obscure and abstract for the average person to Appreciate .

ii. What is the tone of the writer in the given lines from paragraph (1)? Rationalize your response in about 40 words. 2 marks

“If solving a riddle is what was intended, then playing Sudoku is a better option. One is led to ponder if obscurity was the goal”.

iii Complete the sentence appropriately.

The author's use of vivid imagery in the paragraph (3), such as "curl up in a ball and cry" and "jump up and down with joy", greatly affects the reader because_____.

1 mark

iv The passage includes some words that are opposites of each other. From the sets (a)-(e) below, identify two sets of antonyms: 1 mark

- | |
|---|
| (a) intriguing and off-putting (b) deciphering and interpreting
(c) appreciate and applaud (d) simple and challenging
(e) emotions and feelings |
|---|

v Complete the sentence appropriately. 1 mark

We can say that the author's tone becomes more neutral and objective when discussing weird poems, compared to other types of poetry because _____.

vi Based on the reading of the passage, examine, in about 40 words, how studying poetry can be like exploring a new city. 2 marks

vii What is the message conveyed by Hina's experience, in the following case?

Hina spends hours trying to analyze a poem for her assignment and finally feels a sense of accomplishment and pride, once she understands. 1 mark

- A. Only those with natural talent for poetry should engage with it.
- B. Persistence makes studying poetry a rewarding pursuit.
- C. Study of poetry is guaranteed to impress others.
- D. The efforts of studying poetry is inversely proportional to the rewards gained. 1

viii State whether the following lines display an example of a simple / complex / emotionally charged / downright weird , poem. 1 mark

*The sun rises in the east,
A new day begins, a fresh start.
Birds chirp, nature wakes up,
A peaceful feeling in my heart.*

2. Read the following passage and answer the given questions:

10 marks

(1) Reduction in green areas has caused various environmental problems. People squeezed between concrete structures are looking for various ways to meet their longing for green. One of the ways to do so is vertical gardens and green walls. Vertical gardening is a unique method of gardening where plants are grown in a vertical position or upward, rather than in the traditional method of planting them on the ground.

(2) The purpose of vertical gardens and green walls, which arises from the studies of different disciplines (landscape architects, architects, engineers, etc.), is to close the cold image of concrete and increase the visual value. In these systems, nature and structures are integrated, and thus, urban areas and the desired environment have become intertwined.

(3) Vertical garden case studies often show that, though functionality should be in the foreground, when vertical gardens are planned, they are generally made as aesthetic elements in the city's underpasses and city squares, and decorative elements in residences, without seeking functionality.

(4) Experts support that the visual quality and evaluation of landscape architecture is determined based on the satisfaction of the users. Hence, a survey questionnaire was prepared for residents of varied age groups from a metropolitan city. The given Table 1, displays these responses:

Table 1 - Total number of participants: 400

No.	Survey statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Vertical gardens-						
1	improve quality of life of people in urban areas	191	138	43	9	19
2	reduce noise pollution	128	164	77	25	6
3	increase air quality -indoors and outdoors	172	147	51	28	2
4	reduce energy and water consumption	58	47	125	68	2
5	positively impact global warming	114	144	106	30	6
6	have a relaxing and calming effect	161	177	44	7	11
7	cost too much	86	107	152	42	13
8	make plants look beautiful	195	139	44	6	16
9	add naturalness to the environs	135	173	55	25	12
10	are among the determining factor to visiting a place	59	133	141	54	13
11	are inconvenient indoors	9	84	123	126	48
12	can be applied in every place	71	132	97	77	23
13	have a functional feature	81	207	100	10	2
14	distract drivers	34	101	106	131	28
15	funds are best used for social issues	57	72	100	130	41

(5) The study acknowledged that vertical gardening has the potential to transform urban spaces into green, sustainable areas, and further research should explore the impact of vertical gardening on the environment and human well-being.

Answer the following questions, based on the passage :

i Complete the following analogy appropriately, based on your understanding of paragraphs 1 & 2.

We can say that the situation of people living in concrete structures is comparable with a fish living in a fishbowl, and the need for vertical gardens to the need for decorations in the fishbowl because _____.

1 mark

ii Fill the blanks with the appropriate option from those given in brackets, based on your understanding of paragraph 2.

The statement that , urban spaces have become more closely connected with the desired natural surroundings through the incorporation of nature and structures in vertical gardens and green walls, is a _____ (fact/ opinion) because it is a _____ (subjective judgement/ objective detail).

1 mark

iii Justify the following, in about 40 words.

2 marks

While the survey results suggest that vertical gardens may be effective in improving the quality of life in urban areas, further research and evaluation may be necessary to fully understand their effectiveness and potential drawbacks.

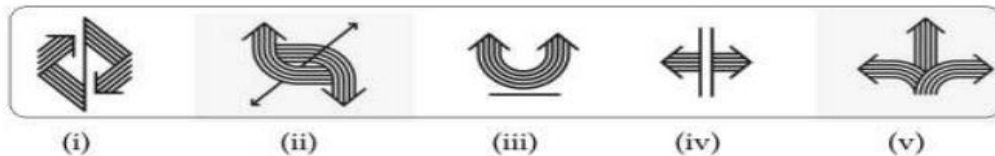
iv Based on the survey results, which two concerns should a city government, looking to install vertical gardens, address?

1 mark

v In Table 1, the statement 3, "Vertical gardens increase air quality - indoors and outdoors," received the most neutral responses from participants, with 51 respondents indicating a neutral stance. State any one inference that can be drawn from this.

1 mark

vi Select the option that correctly displays what 'intertwined' signifies. (Reference- Paragraph 2)



- A. (i) , (iv) and (v)
- B. Only (ii)
- C. Only (iii)
- D. (ii) and (v)

vii Infer one benefit and one drawback of vertical gardening, in comparison to other solutions, such as community gardens or parks. (Answer in about 40 words) 2marks

viii Which of the following is the main takeaway from the study mentioned in the passage?

- A. Vertical gardening has minimal impact on the environment or human well-being.
- B. Vertical gardening is a sustainable practice that can transform urban spaces into green areas.
- C. The impact of vertical gardening on the environment and human well-being has already been thoroughly explored.
- D. The study needs to include experts from horticultural firms to offer any recommendations for further research.

SECTION B : WRITING SKILLS & GRAMMAR (20 marks)

Q3 Complete ANY TEN of twelve of the following tasks, as directed.

1x10=10 marks

i. Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter:

Dear Sir This is with reference to committee's letter of recommendation that _____ (highlight) the nominations for 'Safe Residential Area' award for this current year. 1mark

ii. Read the given sentence from a recipe review article. Identify the error and supply the correction in the sentence. This delightful recipe must keep your hunger pangs at bay with its balanced spices and oriental flavour. Use the given format for your response. error correction 1

iii. Abhilash and Neha had a conversation about the inauguration of Neha's Dance Academy. Report Abhilash's question. Is your best friend helping you in this venture? 1

iv. Read the dialogue between Shabnam and her mentor, Sara, regarding her summer internship programme. Sara: Why did you choose to participate in this internship programme? Shabnam: Ah! I am convinced this programme has the potential to enhance my abilities. Select the correct option to complete the reporting of the above dialogue. Sara asked Shabnam _____ in that internship programme. Shabnam sighed and exclaimed that she was convinced that programme had the potential to enhance her abilities. A. why to choose to participate B. to choose participation C. about her choice to participate D. with her choice in participating 1

v. The hospital board clearly mentioned that you _____ smoke in the hospital as it is a health hazard for all.

A. cannot B. must not C. need not D. might not

vi. There's never _____ petrol left after Rahul uses the car.

A. much B. little C. many D. a little

vii. I am taking driving lessons now. Hopefully, I _____ my driving test by November.

A. will take B. would pass C. will have taken D. will be taking

viii Which option displays the correct change of the following to reported speech?

Sunitha asked Venkat, "How much is the rent for your flat?"

- A. Sunitha asked Venkat how much was his rent for flat.
- B. Sunitha asked Venkat how much the rent for his flat was.
- C. Sunita enquires from Venkat that how much rent he pays.
- D. Sunita told Venkat how much the rent for his flat was.

ix Which option displays the correct change of the following to reported speech?

She said, "I told Damanjit to send you an e-mail three days ago."

- A. She told that Damanjit had mailed you three days then.
- B. She informed me that Damanjit has mailed me three days before.
- C. She says that she has told Damanjit to send me an e-mail three days then.
- D. She said that she had told Damanjit to send an e-mail to me three days before.

x. Identify the error and supply correction for the given sentence from a commercial company's current marketing strategy.

The company aimed at increasing authority in areas frequently visited by the clients.

Use the given format for your response.

error	correction

xi. Select the option that identifies the error and supplies the correction for the closing line, from an analytical report.

In conclusion, this study explores the association among short-sleep pattern and overweight youngsters.

Option No.	error	correction
A	explores	explore
B	and	or
C	among	between
D	In	for

xii. Complete the line from a self-awareness song, by filling the blank with the correct option.

*The river runs through your veins
The trees and mountains _____ your name
The moon and stars watch over
You're guiding your way back home
To dream the night away.*

A. will call

C. had called

B. call

D. calls

WRITING

4a . As Vaishali Nathani of 214, Indrayani Apartments, Vaishali Street, Daipur, you believe that forming Ecology clubs and appointing Eco-minders in your city can aid in the preservation and conservation of nature.

Write a letter to the MLA of your city area, in about 100-120 words, suggesting the need to form such clubs. Share their importance and implications. Recommend the involvement of resident volunteers for the implementation of eco-club activities that nurture and protect the local ecosystem.

OR

4b. You are Sunidhi Prakash, the Vice Captain of Brilliant Vidyalaya, Barra, Kanpur. You have recently noticed several posters around your school premises conveying a hazardous message:

Lose weight in just a month!

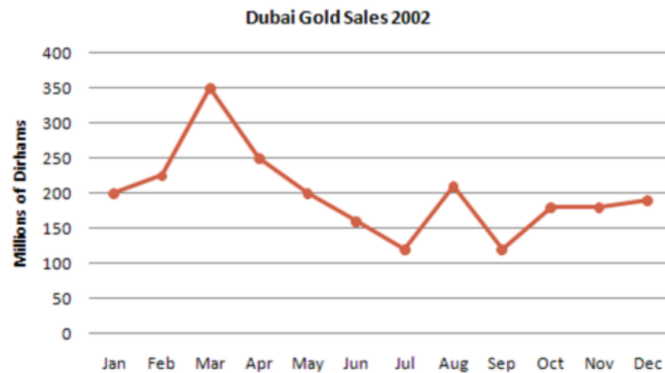
“A WONDER DIET comes to your rescue ...

A privilege available for only a few!”

Write a letter to the Editor of The DWA, in not more than 120 words, drawing attention towards harm caused by such advertising. Propose the implementation of “Wholesome Lunch Month’ in schools as an idea to address such practices, mention

the advantages and share suggestions to foster healthy eating routines and develop positive body image among youngsters.

5.a The graph given shows estimated sales of gold in Dubai in 2002. Write an analytical paragraph describing the line graph in around 100-120 words.



OR

5.B As the Captain of the school's Cultural Club, you have been asked to study the given itinerary provided by a tour-organizing vendor.

A 3N/2D Educational Tour for the Senior School Students: Jabalpur and Ranha National Park (Vandhya Pradesh)

- Tour Travel & sightseeing by bus.
- Accommodation on quad sharing basis.
- One staff complimentary for every 20 students.
- Bottled mineral water throughout the tour.
- Dance Party on 22 November.
- Insurance policy of ₹ 20,000/- per head.
- Provision of Tour Manager's assistance to all places.

Day	Estimated time of departure from	Estimated time of arrival	Sight-seeing Destination/ Activity	Time spent at the destination
22 Nov. 2023	8:49 am (Nagpur Junction)-8 hrs. 30 min	5:23 pm	Reporting at the hotel	
23 Nov. 2023	9:00am (hotel)	10:00am	Bhawartal Garden	1 hr.
	11:00am (garden)	11:40am	Bhedaghat Dhuandhar Falls	1hr.
	12:40pm (falls)	1:00pm	Lunch (nearby restaurant)	1 hr.
	2:00pm (restaurant)	2:15pm	Marble Rocks Cable car tour	1hr. 30 mins
	3:45pm (Marble Rocks)	4:45 pm	Rani Durgavati Museum	1 hr. 30 mins
	6:15pm (museum)	7:00pm	Back to the hotel	
24 Nov. 2023	5:30am (hotel)- 170 kms- 4 hrs. drive	9:30am	Ranha Tiger Reserve	7hrs.
	4:30pm (Tiger Reserve)	9:00pm	Back to the hotel	
25 Nov. 2023	7:54 am (Jabalpur Railway station)- 8 hrs. 45 min	4:21 pm	Nagpur Railway Junction	

Analyze this itinerary to either approve or reject the tour proposal, while focusing on the student's safety, interest, and physical wellness. Write this analytical paragraph in about 120 words, by selecting features that support your analysis.

You may begin like this:

A thorough analysis of the itinerary provided by the tour organizing vendor reveals that the tour proposal should be accepted/rejected. You may end up like this: Therefore, the tour proposal for the educational trip should be approved/rejected.

SECTION D :

LITERATURE TEXTBOOK AND SUPPLEMENTARY TEXT (40 marks)

Q6. Read the given extracts and answer the questions for ANY ONE of the two, given. 5 marks

5a. The question he tried to answer was simple: What is the purpose of the twelve tiny gold spots on a monarch pupa? “Everyone assumed the spots were just ornamental,” Ebright said. “But Dr Urquhart didn’t believe it.” To find the answer, Ebright and another excellent science student first had to build a device that showed that the spots were producing a hormone necessary for the butterfly’s full development. This project won Ebright first place in the county fair and entry into the International Science and Engineering Fair. There he won third place for zoology. He also got a chance to work during the summer at the entomology laboratory of the Walter Reed Army Institute of Research.

(The Making of a Scientist)

i State any one inference about Dr Urquhart from the given context:

Everyone assumed the spots were just ornamental,” Ebright said. “But Dr Urquhart didn’t believe it.” 1

ii State TRUE or FALSE.

None of the terms (a) -(d) below, can be applied to the question - What is the purpose of the twelve tiny gold spots on a monarch pupa?

(a) A hypothesis - a proposed explanation for a phenomenon

(b) An assumption - something that is taken for granted or assumed to be true without proof

(c) A premise - a proposition that forms the basis of an argument

(d) A theory - a well-substantiated explanation for a natural phenomenon 1

iii Ebright's approach towards finding the purpose of the gold spots on a monarch pupa was highly effective. Elaborate in about 40 words, with reference to the extract.

iv Which phrase would correctly substitute 'a chance' , in the given sentence from the extract. He also got a chance to work during the summer at the entomology laboratory of the Walter Reed Army Institute of Research. 1

OR

B. “Hey, a tea garden!” Rajvir cried excitedly. Pranjol, who had been born and brought up on a plantation, didn’t share Rajvir’s excitement. “Oh, this is tea country now,” he said. “Assam has the largest concentration of plantations in the world. You will see enough gardens to last you a lifetime!” “I have been reading as much as I could about tea,” Rajvir said. “No one really knows who discovered tea but there are many legends.” (Glimpses of India)

i) Why was Pranjol not as excited as Rajvir about the tea gardens? 1 mark

A. He disliked looking at tea gardens.

B. He had worked in tea gardens himself.

C. He had grown up in and around tea gardens.

D. He was bored with tea gardens.

ii) What does Pranjol mean by saying that Assam has the largest concentration of plantations in the world? 2 marks

iii) Fill in the blank with ONE WORD only. 1 mark
Pranjol's _____ comes through clearly when he exclaims, "You will see enough gardens to last you a lifetime!"

iv) Select the option that correctly captures the application of the word 'cried' as used in line 1 of the extract. 1 mark

A. Jaspreet cried a lot in spite of winning second place in a competition.

B. Jaspreet cried out loud when she saw a white tiger in the sanctuary.

C. Jaspreet cried for hours when the police were unable to find her lost pet.

D. Jaspreet has barely cried since she was three years of age.

2 iii Read the following descriptions (a)-(c) and identify which one correctly corresponds to the extract. (a) A debate is a formal discussion on a particular topic, usually with two or more people presenting different viewpoints and arguments. (b) A soliloquy is a speech given by a character alone on stage, which reveals their innermost thoughts and feelings to the audience. (c) An aside is a brief comment or remark made by a character directly to the audience, which is not intended to be heard by other characters on stage. 1 iv If an actor were to enact this extract, what would he be required to focus on, while modulating his voice? 1

7. Read the given extracts and answer the questions for ANY ONE of the two, given.

A. But if it had to perish twice,
I think I know enough of hate
To say that for destruction ice
Is also great
And would suffice.

(Fire and Ice)

i Fill the blank with one word.

When the speaker says that ice could also bring about the end of the world, he refers to _____, as the means for destruction. 1 mark

ii What does the speaker's alignment with those who favour ice, suggest? 1 mark

iii Which of the following best describes the speaker's attitude towards destruction caused by ice?

A. Indifferent B. Fearful C. Dismissive D. Respectful 1 mark

iv Comment on the poet's use of language in these lines. 2 marks

OR

B. **The trees inside are moving out into
the forest,
the forest that was empty all these
days
where no bird could sit
no insect hide**

**no sun bury its feet in shadow
the forest that was empty all these
nights
will be full of trees by morning.**

(The Trees)

i) Complete the sentence appropriately. It is clear that Personification is the poetic device used for 'No sun bury its feet....' because _____. (Clue: explain how personification applies here) 1 mark

ii) The poet has used a poetic device in the given lines. What effect does she wish to create by its use? 1 mark

...no bird could sit
no insect hide no sun...

A. emphasis B. comparison C. rhyme D. humour

iii) State whether the following statement is TRUE or FALSE: 1 mark
The extract uses trees as a symbol for conservative people.

iv) Why are the trees moving out into the forest? 2 marks

Q8 Answer ANY FOUR of the following five questions, in about 40-50 words.

4x3=12 marks

i Justify the opinion that the traditional baker and his bread play a significant role in the cultural and social fabric of Goan society. (Glimpses of India-I)

ii How does Leslie Norris use vivid imagery and metaphorical language in A Tiger in the Zoo, to effectively depict the confinement and oppression, experienced by the captive tiger.

iii Explain how the description of the devastation caused by the hailstorm reflects the sadness within Lencho, in A Letter to God.

iv Kitty was a trusted friend to Anne. Elaborate. (From the Diary of Anne Frank)

v Validate the given statement with reference to the baby seagull's fear. 'Fear doesn't exist anywhere else other than one's mind.' (His First Flight- Two Stories about Flying)

9 Answer ANY TWO of the following three questions, in about 40-50 words.

2x3=6 marks

i Dr. Herriot knew his patients as well as their owners really well. Discuss.,
(A Triumph of Surgery)

ii Validate the importance of small, fun learning tasks towards successful careers, in the context of Richard Ebright in The Making of a Scientist.

iii State the reason why the writer of The Midnight Visitor chose to characterize Ausable as short and fat.

10 Answer ANY ONE of the following two questions, in about 100-120 words.

1x6=6 mark

(A) You have been asked to present an evaluation of the approaches of the mothers of both, the baby seagull and Amanda, towards helping their children. Write this presentation draft including your insights, in about 120 words, comparing the approaches of both parents.

You may begin this way: One acknowledges that both parents, Amanda's mother and the baby seagull's mother both....however, ... (Reference -Amanda! & His First Flight)

OR

(B) You have been chosen to address a student gathering from the neighbourhood schools, to speak on the resilience of human spirit required to transcend discrimination. Prepare the speech draft in not more than 120 words, with reference to the commonality of themes in Nelson Mandela: Long Walk to Freedom and The Trees by Adrienne Rich.

You may begin this way:

Good morning, everyone. Today, I'd like to discuss two pieces of literature that offer a powerful insight into the resilience of the human spirit required to transcend discrimination.

You may end this way.

To conclude, I'd like to say that ...

Thank you

11 Answer ANY ONE of the following two questions, in about 100-120 words.

1x6=6 marks

(A) Imagine that M. Loisel, from The Necklace by Guy de Maupassant, writes a diary entry, exploring the theme of class and social status, and the nature of social mobility, in the context of his own experience. Write this diary entry, as M. Loisel, in about 120 words.

OR

(B) A character arc is the transformation or development of a character throughout a story and refers to the changes a character undergoes as a result of their experiences, challenges, and interactions with other characters. In the light of the above information, trace the character arc of the thief in Ruskin Bond's The Thief's Story, in about 120 words.

कक्षा-दसवीं
विषय- हिंदी 'ब'

समय- 3 घंटे
पूर्णांक- 80

सामान्य निर्देश:-

- इस प्रश्न पत्र में चार खंड हैं- खंड 'क,ख,ग और घ' और प्रश्नों की कुल संख्या 16 है।
- प्रश्नों के सभी उपभागों के उत्तर क्रमशः एक साथ लिखिए।
- उत्तरपुस्तिका में उत्तर के साथ वही क्रम संख्या लिखिए, जो प्रश्न पत्र में दी गई है।
- सभी खंड अनिवार्य हैं।

खंड-क (अपठित बोध)

1) निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर इसके आधार पर सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए – (1+1+1+2+2=7)
राष्ट्रीय पाठ्यक्रम फ्रेमवर्क 2023 में प्रस्तावित बदलाव स्कूली शिक्षा के स्वरूप और उसके द्वारा विद्यार्थियों के शैक्षिक विकास की दृष्टि से बहुत महत्वपूर्ण रचनात्मक, सुविचारित और सकारात्मक हैं। इसमें पहला सबसे महत्वपूर्ण बदलाव सीखने के कौशलों पर बल देना है। नए फ्रेमवर्क में इस बात पर बल है कि विद्यार्थी की न केवल ज्ञान में बढ़ोतरी हो बल्कि वह नया ज्ञान अर्जित करने के कौशल, ज्ञान को जीवन में लागू करने और सॉफ्ट स्किल्स व पेशेवर कौशल अर्जित करके समाज के लिए अधिक उपयोगी नागरिक बन सके। पाठ्यक्रम में विभिन्न मूल्यों पर भी बल दिया गया है। इनमें लोकतान्त्रिक मूल्यों का सम्मान, पर्यावरण की रक्षा, गरिमा, विविधता की सराहना, जीवदया, समानता आदि शामिल हैं। दूसरा महत्वपूर्ण बदलाव विद्यार्थियों को विषय चुनने में छूट देना है। विद्यार्थियों को सीखने की आज़ादी देने व उन्हें करियर में फँसे रहने की बजाय, अपनी रुचियों को आगे बढ़ाने की सुविधा दी गई है। तीसरा महत्वपूर्ण बदलाव सीखने में भाषाओं और उनमें भी भारतीय भाषाओं पर बल देना है। इस प्रस्ताव में भारतीय भाषाओं पर बल देने से एक तो विद्यार्थियों को अपनी भाषाएँ सीखने का अवसर मिलेगा, साथ ही भारत की अन्य भाषाओं को सीखने से उन्हें भारत से गहन परिचय प्राप्त करने में मदद मिलेगी।

i) गद्यांश की विषयवस्तु का आधार है -

क) भारतीय भाषा ख) विदेशी भाषा ग) बाल केन्द्रित शिक्षा घ) परंपरागत शिक्षण

ii) सीखने के कौशलों पर बल दिया जाना क्यों आवश्यक है?

क) विदेशों से प्रतिस्पर्धा के लिए ख) कौशल परिवर्तन के लिए
ग) सामाजिक लाभ के लिए घ) व्यक्ति के संपूर्ण विकास के लिए

iii) 'लोकतांत्रिक मूल्यों' से क्या अभिप्राय है?

क) लोगों के लिए आवश्यक मूल्य ख) मूल्यपरक प्रश्नों को पूछना
ग) लोकतंत्र का महत्त्व बताना घ) लोककथाओं को महत्त्व देना

iv) अपनी रुचि के अनुसार विषय चयन करने को महत्त्वपूर्ण बदलाव क्यों माना गया है?

v) गद्यांश के अनुसार पाठ्यक्रम में किन मूल्यों पर बल दिया गया है?

2) नीचे दिए गए गद्यांश को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर सही विकल्प चुनकर लिखिए – (1+1+1+2+2=7)

अच्छा नागरिक बनने के लिए भारत के प्राचीन विचारकों ने कुछ नियमों का प्रावधान किया है। इन नियमों में वाणी और व्यवहार की शुद्धि, कर्तव्य और अधिकार का समुचित निर्वाह, शुद्धतम पारस्परिक सद्भाव और सेवा की भावना आदि का नियम बहुत महत्त्वपूर्ण माने गए हैं। ये सभी नियम यदि एक व्यक्ति के चारित्रिक गुणों के रूप में भी अनिवार्य माने जाएँ तो उसका अपना जीवन सुखी और आनंदमय हो सकता है। सभी गुणों का विकास एक बालक में यदि उसकी बाल्यावस्था से ही किया जाए तो वह अपने देश का श्रेष्ठ नागरिक बन सकता है। इन गुणों के कारण वह अपने परिवार, आस-पड़ोस, विद्यालय में अपने सहपाठियों एवं अध्यापकों के प्रति यथोचित व्यवहार कर सकेगा।

वाणी एवं व्यवहार की मधुरता सभी के लिए सुखदायक होती है, समाज में हार्दिक सद्भाव की वृद्धि करती है किन्तु अहंकारहीन व्यक्ति ही स्निग्ध वाणी और शिष्ट व्यवहार का प्रयोग कर सकता है। अहंकारी और दंभी व्यक्ति सदा अशिष्ट वाणी और व्यवहार का अभ्यासी होता है जिसका परिणाम यह होता है कि ऐसे आदमी के व्यवहार में शांति और सौहार्द का वातावरण नहीं बनता।

जिस प्रकार एक व्यक्ति समाज में रहकर अपने व्यवहार से कर्तव्य और अधिकार के प्रति सजग रहता है, उसी तरह देश के प्रति भी उसका व्यवहार कर्तव्य और अधिकार की भावना से भावित रहना चाहिए। इससे उसका कर्तव्य हो जाता है कि न तो वह स्वयं ऐसा कोई काम करे और न ही दूसरों को करने दे, जिसमें देश के सम्मान, सम्पत्ति और स्वाभिमान को ठेस लगे।

समाज एवं देश में शांति बनाए रखने के लिए धार्मिक सहिष्णुता भी बहुत आवश्यक है। यह वृत्ति तभी आ सकती है जब व्यक्ति सन्तुलित व्यक्तित्व का हो। वह आंतरिक व बाहरी संघर्ष से परे सामाजिकता की अनुभूति से परिपूर्ण व्यक्तित्व वाला होना चाहिए।

i) गद्यांश के संदर्भ में अच्छा नागरिक बनने के लिए नियमों का प्रावधान आवश्यक है, क्योंकि यह -

क) स्वतन्त्रता को बढ़ावा देता है जिससे वातावरण को शान्ति से परिपूर्ण करता है।

ख) व्यक्तित्व को निखारकर जीवन को आमोद-प्रमोद से परिपूर्ण करता है।

ग) व्यक्तित्व को निखारकर जीवन को सुख और मंगलकामना से परिपूर्ण करता है।

घ) व्यक्ति को अहंकार, स्निग्ध वाणी और शिष्ट व्यवहार से परिपूर्ण करता है।

ii) वाणी एवं व्यवहार की मधुरता सभी के लिए सुखदायक होती है। इस कथन के लिए उपयुक्त तर्क है-

क) देश के सम्मान, सम्पत्ति और स्वाभिमान को ठेस पहुँचती है।

ख) देश व समाज में शान्ति और सौहार्द का वातावरण नहीं बनता।

ग) कर्तव्य और अधिकार का समुचित निर्वाह बहुत आवश्यक है।

घ) समाज में हार्दिक सद्भाव की वृद्धि और सुख की प्रतिष्ठा होती है।

iii) निम्नलिखित कथनों पर विचार कीजिए -

I) अहंकारी व्यक्ति सदा अशिष्ट वाणी का अभ्यासी होता है।

II) अहंकारी व्यक्ति सदा मधुर वाणी का अभ्यासी होता है।

III) अहंकारी व्यक्ति सदा स्निग्ध वाणी का अभ्यासी होता है।

उपर्युक्त कथनों में से कौन-सा/कौन-से कथन सही है/हैं?

क) केवल I ख) II और III ग) I और II

घ) I और III

iv) सन्तुलित व्यक्तित्व से क्या तात्पर्य है?

v) समाज और देश में शांति बनाए रखने के लिए क्या आवश्यक है?

खंड- ख (व्यावहारिक व्याकरण)

3) निर्देशानुसार पदबंध पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए- (1X4=4)

i) "उसकी कल्पना में वह अद्भुत साहसी युवक था" इस वाक्य में संज्ञा पदबंध बताइए।

ii) "धीरे-धीरे सूरज डूबता जा रहा था।" वाक्य में रेखांकित पदबंध का परिचय दीजिए।

iii) "ततारा को देखते ही वह ज़ोर से फूट-फूटकर रोने लगी।" वाक्य में रेखांकित पदबंध बताइए।

iv) "अनुशासन भंग करने वालों में से कुछ दूसरी कक्षा के छात्र हैं।" वाक्य में सर्वनाम पदबंध कौन सा है?

v) "कमरे में आते ही भाई साहब का वह रौद्र रूप देखकर प्राण सूख जाते।" वाक्य में रेखांकित पदबंध बताइए।

4) निर्देशानुसार रचना के आधार पर वाक्य भेद पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए: (1X4=4)

i) "पढ़ाई और खेलकूद साथ-साथ चल सकते हैं" – वाक्य रचना की दृष्टि से यह कौन-सा वाक्य है?

ii) "उनकी नज़र मेरी ओर उठते ही मेरे प्राण निकले।" – इसका संयुक्त वाक्य क्या बनेगा?

iii) एक मिश्र वाक्य का उदाहरण दीजिए।

iv) "ततारा वामीरो की जो त्यागमयी मृत्यु थी वो इसी सुखद परिवर्तन के लिए थी" – रचना की दृष्टि से यह वाक्य कौन-सा है?

v) "मेरी माँ कहती थी कि सूरज ढले आँगन के पेड़ों से पत्ते तोड़ने पर पेड़ रोएँगे" – इसका सरल वाक्य बनाइए।

5) निर्देशानुसार समास पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए। (1X4=4)

i) 'पुस्तकालय' समस्तपद का विग्रह कर समास का नाम लिखिए।

ii) 'पीत है अंबर जिसका' समस्तपद लिखकर समास का भेद लिखिए।

iii) किस समास में दूसरा पद प्रधान होता है और कारक चिह्न का प्रयोग होता है?

iv) मैंने सूररचित सूरसागर खरीदी। रेखांकित समस्तपद के स्थान पर विग्रह लिखते हुए समास का नाम लिखिए।

v) 'नीलकंठ' समस्तपद का विग्रह कर समास का नाम लिखिए।

- 6) निर्देशानुसार मुहावरों पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए। (1X4=4)
- 'प्राण निकलना' मुहावरे का सही अर्थ क्या है?
 - 'हिम्मत टूटना' मुहावरे का सही अर्थ क्या है?
 - "नीरज चौपड़ा द्वारा ओलंपिक प्रतियोगिता में पदक जीतने पर देश की ।" – रिक्त स्थान की पूर्ति उचित मुहावरे से कीजिए।
 - "आई०ए०एस० की परीक्षा पास करने के लिए पड़ती है, तब कहीं जाकर सफलता मिलती है।" – रिक्त स्थान की पूर्ति उचित मुहावरे से कीजिए।
 - 'अत्यधिक क्रोधित होना' – इस अर्थ के लिए सही मुहावरा लिखिए।

खंड - ग (पाठ्यपुस्तक एवं पूरक पाठ्यपुस्तक)

- 7) निम्नलिखित पठित पद्यांश पर आधारित प्रश्नों के सही विकल्प चुनिए – (1x5 =5)
- गिरि का गौरव गाकर झर-झर
मद में नस-नस उत्तेजित कर
मोती की लड़ियों से सुंदर
झरते हैं झाग भरे निर्झर !
गिरि का गौरव गाकर झर-झर
मद में नस-नस उत्तेजित कर
मोती की लड़ियों से सुंदर
झरते हैं झाग भरे निर्झर !
गिरिवर के उर से उठ-उठ कर उच्चाकांक्षाओं से तरुवर
हैं झाँक रहे नीरव नभ पर
अनिमेष, अटल, कुछ चिंतापर।
- गिरि के गौरव का गान कर रहे हैं -
क) पहाड़ ख) झरना ग) पर्वत घ) प्रदेश
 - झरने के स्वरो से नस-नस में क्या भर जाती है?
क) प्रतिवेदना ख) उच्चाकांक्षा ग) उत्तेजना घ) आत्मगौरव
 - झरने के पानी की बूँदें कैसी प्रतीत होती है?
क) फूलों की लड़ियों-सी ख) मोती की लड़ियों-सी ग) माला की लड़ियों-सी घ) इनमें से कोई नहीं
 - पर्वत की छाती पर उगे ऊँचे वृक्षों की तुलना किससे की गई है?
क) नदी के बहते जल से ख) झरने के गिरते पानी से ग) पहाड़ से नीचे बहते पानी से घ) मन में उठने वाली ऊँची आकांक्षाओं से
 - उपर्युक्त काव्यांश से संबंधित कौन-सा कथन असत्य है?
क) झरने पर्वत का यशोगान कर रहे हैं।
ख) झरनों का स्वर आलस्य पैदा कर रहा है।
ग) मोती की लड़ियाँ लटक रही हैं।
घ) वृक्ष किसी गहरी चिंता में डूबे हुए हैं।

- 8) निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25 से 30 शब्दों में लिखिए (2x3=6)
- 'हरि आप हरो'----- पद में मीरा ने 'द्रौपदी, प्रहलाद और कुंजर' का उदाहरण देकर क्या दर्शाना चाहा है? हरि से अपनी पीड़ा हरने की विनती किस प्रकार की है?
 - वर्षा ऋतु में पर्वतीय प्रदेश का प्राकृतिक दृश्य अत्यंत मनोरम हो जाता है। इस कथन के आलोक में 'पर्वत प्रदेश में पावस' कविता का प्रतिपाद्य अपने शब्दों में लिखिए।
 - कवि मैथलीशरण गुप्त ने कहा, 'अतर्क एक पंथ के सतर्क पंथ हो सभी।' इस पंक्ति की सार्थकता वर्तमान समय में इसका औचित्य स्थापित कीजिए।
 - अपने स्वभाव को निर्मल रखने के लिए कबीर ने क्या उपाय सुझाया है?

- 9) निम्नलिखित पठित गद्यांश पर आधारित प्रश्नों के सही उत्तर वाले विकल्प चुनिए— (1x5=5)
- ततार्रा का मन इन कार्यक्रमों में तनिक न था। उसकी व्याकुल आँखें वामीरो को ढूँढने में व्यस्त थीं। नारियल के झुंड के एक पेड़ के पीछे से उसे जैसे कोई झाँकता दिखा। उसने थोड़ा और करीब जाकर पहचानने की चेष्टा की। वह वामीरो थी जो भयवश सामने आने में झिझक रही थी। उसकी आँखें तरल थीं। होंठ काँप रहे थे। ततार्रा को देखते ही वह फूटकर रोने लगी। ततार्रा विह्वल हुआ। उससे कुछ बोलते ही

नहीं बन रहा था। रोने की आवाज़ लगातार ऊँची होती जा रही थी। तताँरा किंकर्तव्यविमूढ़ था। वामीरो के रुदन स्वरों को सुनकर उसकी माँ वहाँ पहुँची और दोनों को देखकर आग बबूला हो उठी। सारे गाँववालों की उपस्थिति में यह दृश्य उसे अपमानजनक लगा। इस बीच गाँव के कुछ लोग भी वहाँ पहुँच गए। वामीरो की माँ क्रोध में उफन उठी। उसने तताँरा को तरह-तरह से अपमानित किया। गाँव के लोग भी तताँरा के विरोध में आवाजें उठाने लगे। यह तताँरा के लिए असहनीय था। वामीरो अब भी रोए जा रही थी। तताँरा भी गुस्से से भर उठा। उसे जहाँ विवाह की निषेध परंपरा पर क्षोभ था वहीं अपनी असहायता पर खीझ। वामीरो का दुख उसे और गहरा कर रहा था। उसे मालूम न था कि क्या कदम उठाना चाहिए? अनायास उसका हाथ तलवार की मूठ पर जा टिका। क्रोध में उसने तलवार निकाली और कुछ विचार करता रहा। क्रोध लगातार अग्नि की तरह बढ़ रहा था।

i) वामीरो नारियल के पेड़ों के झुंड में क्यों छिपी हुई थी?

क) समाज के डर से ख) समाज की निंदा से ग) गाँव के मुखिया से घ) इनमें से कोई नहीं

ii) तताँरा ने स्वयं को अपमानित महसूस किया क्योंकि -

I) वामीरो की माँ ने अपमानित किया

II) गाँव वालों ने भी अपमानित किया

III) वामीरो ने भी उसे अपमानित किया

IV) गाँव के प्रधान ने उसे अपमानित किया

क) केवल (II) ख) (I) और (II) ग) (I), (II), (III) घ) (II), (III), (IV)

iii) गाँव वालों और वामीरो की माँ ने तताँरा के साथ व्यवहार किया -

क) स्नेह पूर्वक ख) प्रेम पूर्वक ग) आपत्ति पूर्वक घ) अपमानजनक

iv) वामीरो कहाँ छिपी थी?

क) पहाड़ के पीछे ख) चट्टान के पीछे ग) नारियल के पेड़ के पीछे घ) झोंपड़ी के पीछे

v) कथन (A) वामीरो तताँरा को देखकर बहुत खुश हुई।

कारण (R) माँ ने तताँरा को बहुत स्नेह किया।

क) कथन (A) गलत है, किंतु कारण (R) सही है।

ख) कथन (A) और कारण (R) दोनों ही गलत हैं।

ग) कथन (A) सही है और कारण (R) कथन (A) की सही व्याख्या करता है।

घ) कथन (A) सही है, किंतु कारण (R) कथन (A) की सही व्याख्या नहीं करता है।

10) निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25 से 30 शब्दों में लिखिए। (2×3=6)

i) 'डायरी का एक पन्ना' पाठ के आधार पर बताइए कि पुलिस ने कैसा दमनचक्र चलाया और क्यों? लोगों ने किस प्रकार उसका मुँहतोड़ उत्तर दिया?

ii) तताँरा-वामीरो कथा के माध्यम से समाज की कौन-सी समस्या की ओर ध्यान आकर्षित किया गया है?

iii) बड़े भाई साहब ने जिंदगी के अनुभव और किताबी ज्ञान में से किसे महत्वपूर्ण कहा है और क्यों?

iv) बड़े भाई साहब के बार-बार फेल होने के कारणों की समीक्षा कीजिए।

11) निम्नलिखित प्रश्नों में से किन्हीं 2 प्रश्नों के उत्तर लगभग 50 से 60 शब्दों में लिखिए। (2×2=4)

i) 'हरिहर काका' के साथ उनके भाइयों तथा ठाकुरबारी के महंत ने कैसा व्यवहार किया? क्या आप इसे उचित मानते हैं? कारण सहित स्पष्ट कीजिए।

ii) परिवार की स्वार्थपरकता तथा हरिहर काका की उपेक्षा एवं उचित देखरेख न किए जाने के वर्णन को पढ़कर आपके मन पर क्या और कैसा प्रभाव पड़ता है? अपने घर में आप ऐसी स्थिति को कैसे संभालते।

iii) 'हरिहर काका' कहानी वृद्धों के प्रति संवेदनहीन होते समाज की कथा है। इस कथन को कहानी के आधार पर उदाहरण सहित सिद्ध कीजिए।

खंड-घ (रचनात्मक लेखन)

12) निम्नलिखित में से किसी एक विषय पर संकेत-बिंदुओं के आधार पर लगभग 100 शब्दों में अनुच्छेद लिखिए-

(5)

i) आज की आवश्यकता - संयुक्त परिवार

- एकल परिवार का बढ़ता चलन
- एकल परिवार और वर्तमान समाज
- संयुक्त परिवार की आवश्यकता

- बुजुर्गों की देखभाल
 - एकाकीपन को जगह नहीं
- ii) जीवन में सरसता लाते त्योहार
- त्योहारों का देश भारत
 - नीरसता भगाते त्योहार
 - त्योहारों के लाभ
 - त्योहारों पर महँगाई का असर
- iii) सादा जीवन उच्च विचार
- भारतीय संस्कृति और सादा जीवन उच्च विचार
 - महत्ता
 - महापुरुषों ने अपना सादा जीवन उच्च विचार
 - वर्तमान स्थिति

13) पुस्तकालय में पत्रिकाओं की कमी की ओर ध्यान आकर्षित करते हुए अपने विद्यालय की प्रधानाचार्या को प्रार्थना-पत्र लिखिए। आप दसवीं 'सी' में पढ़ने वाले छात्र विमल गुप्ता हो। (5)

अथवा

दिल्ली परिवहन निगम के प्रबंधक को अपने क्षेत्र तक बस चलाने के लिए एक पत्र लिखिए।

14) निम्नलिखित में से किसी एक विषय पर लगभग 60 शब्दों में सूचना लिखिए- (4)
विद्यालय के सांस्कृतिक कार्यक्रम के सचिव की ओर से बाल कलाकारों द्वारा नाट्य प्रस्तुति की सूचना तैयार कीजिए।

अथवा

आप अपने विद्यालय की हिंदी साहित्य समिति के सचिव हैं। आपके विद्यालय में आयोजित होने वाली दोहा गायन प्रतियोगिता के लिए विद्यार्थियों को आमंत्रित करते हुए सूचना लिखें।

15) निम्नलिखित में से किसी एक विषय पर लगभग 40 शब्दों में विज्ञापन तैयार कीजिए- (3)
आपके शहर के खादी वस्त्र भंडार ने गाँधी जयंती के अवसर पर खादी वस्त्रों की लोकप्रियता बढ़ाने हेतु खादी वस्त्रों पर 10 प्रतिशत से 25 प्रतिशत तक छूट देने का निश्चय किया है। स्वयं को उस खादी वस्त्र भंडार का प्रबंधक मानकर एक विज्ञापन तैयार कीजिए।

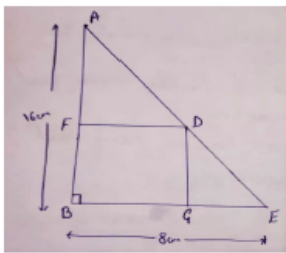
अथवा

विद्यालय के 'नाट्य समूह' द्वारा प्रस्तुत शहीद भगतसिंह नाटक के बारे में नाम, पात्र, दिन, समय, टिकट आदि की सूचना देते हुए एक विज्ञापन तैयार कीजिए।

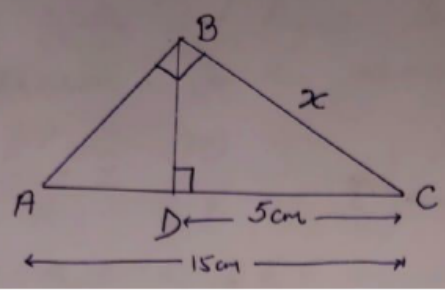
16) 'मेरे बचपन की साहसिक घटना' - विषय पर एक लघुकथा लगभग 100 शब्दों में लिखिए। (5)

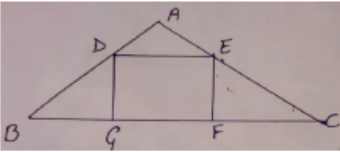
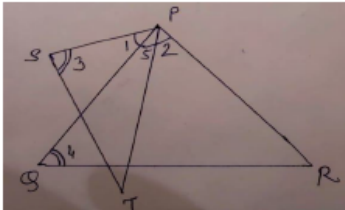
अथवा

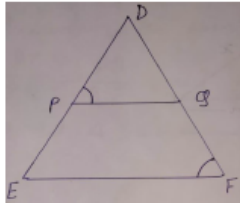
आपके विद्यालय में वार्षिक खेल-दिवस मनाया गया। इसकी जानकारी देते हुए स्कूल प्रबंधन समिति के अध्यक्ष को ई-मेल लिखिए।

6	Which of the following equations has the sum of its roots as 3? (a) $2x^2 - 3x + 6 = 0$ (c) $\sqrt{2}x^2 - \frac{3}{\sqrt{2}}x + 1 = 0$	(b) $-x^2 + 3x - 6 = 0$ (d) $3x^2 - 3x + 3 = 0$	1
7	If the sum of the roots of the equation $x^2 - x = m(2x - 1)$ is zero, then m= (a)-2 (b)2 (c) -1/2 (d)1/2		1
8	If the coordinates of one end of a diameter of a circle are (2,3) and the coordinates of its centre are (-2,5), then the coordinates of the other end of the diameter are (a)(-6,7) (b)(6,-7) (c) (6,7) (d)(-6,-7)		1
9	If the distance between the points (2, -2) and (-1,x) is 5, then the sum of values of x is (a)4 (b)-4 (c) 8 (d)-8		1
10	The ratio in which x-axis divides the line segment joining A(3,6) and B(12,-3) is (a) 2:1 (b)1:2 (c) 1:3 (d)3:1		1
11	Sides AB and BE of a right triangle, right angled at B are of lengths 16cm and 8 cm respectively. The length of the side of the largest square FDGB that can be inscribed in the triangle ABE is: (a) 32/3 (b) 8/3 (c) 16/3 (d) 4/3		1
12	The altitude drawn to the hypotenuse of a right angled triangle divides it into two triangles both of which are (a) similar to each other (b)congruent to each other (c) isosceles (d)equilateral		1
13	If in triangles ABC and DEF, $\frac{AB}{DE} = \frac{BC}{FD}$, then they will be similar, if (a) $\angle B = \angle E$ (b) $\angle A = \angle D$ (c) $\angle B = \angle D$ (d) $\angle A = \angle F$		1
14	If $\triangle DEF \sim \triangle XYZ$ and the sides of $\triangle DEF$ are 3cm, 4cm and 5cm, then the sides of $\triangle XYZ$ can be (a)6cm, 8cm, 12cm (b)8cm, 10cm, 6cm (c) 6cm, 10cm, 16cm (d) 6cm, 8cm, 10cm		1
15	If $x \tan 60^\circ \cos 60^\circ = \sin 60^\circ \cot 60^\circ$, then x = (a) $\cos 30^\circ$ (b) $\tan 30^\circ$ (c) $\sin 30^\circ$ (d) $\cot 30^\circ$		1
16	If $\triangle ABC$ is right angled at C, then the value of $\cos(A+B)$ is: (a)0 (b)1 (c) $\frac{1}{2}$ (d) $\frac{\sqrt{3}}{2}$		1
17	The probability of guessing the correct answer to a certain question is a/b. If the probability of not guessing the correct answer to this question is $\frac{2}{3}$, then (a)b=4a (b) b=a (c) b=2a (d) b=3a		1

18	A three digit number is chosen at random, the probability that it is divisible by both 2 and 3, is (a) $\frac{1}{8}$ (b) $\frac{1}{9}$ (c) $\frac{1}{6}$ (d) $\frac{1}{12}$	1
	DIRECTION: In the question number 19 and 20, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option A)Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) B)Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) C)Assertion (A) is true but reason (R) is false. D)Assertion (A) is false but reason (R) is true.	1
19	Assertion(A): Cot A is the product of Cot and A. Reason(R): The value of Sin θ increases as θ increases.	1
20	Assertion(A): The probability that a leap year has 53 Sundays is $\frac{2}{7}$. Reason(R): The probability of an event is $P(E)=n(E)/n(S)$.	1
Section -B		

Section B consists of 5 questions of 2 marks each.		
21	If α and β are zeroes of $x^2 + 7x + 12$ then find the value of $\frac{1}{\alpha} + \frac{1}{\beta} - 2\alpha\beta$	2
22	Find the value of p for which the roots of the equation $px(x - 2) + 6 = 0$ are equal. OR If $x = \frac{2}{3}$ and $x = -3$ are roots of the quadratic equation $ax^2 + 7x + b = 0$, then find the values of a and b.	2
23	Points A(3,1) , B(5,1), C(a,b) and D(4,3) are the vertices of a parallelogram ABCD. Find the value of a and b.	2
24	Find the value of x, if ΔABC and ΔBDC are right angled triangles. 	2
25	Prove that: $\frac{\operatorname{cosec}^2 x - \sin^2 x \cot^2 x - \cot^2 x}{\sin^2 x} = 1$ OR	2

	If $\sin \alpha = \frac{\sqrt{3}}{2}$ and $\cos \beta = 0$, then find the value of $\beta - \alpha$.	
	Section -C	
	Section C consists of 6 questions of 3 marks each	
26	Prove that $\sqrt{5}$ is an irrational number.	3
27	Find the quadratic polynomial whose zeroes are $2 + \sqrt{3}$ and $2 - \sqrt{3}$. Verify the relationship between the coefficients and zeroes of the polynomial.	3
28	Solve the following systems of equations: $ax + by = a - b$; $bx - ay = a + b$	3
29	If the equation $(1 + m^2)x^2 + 2mcx + (c^2 - a^2) = 0$ has equal roots, prove that $c^2 = a^2(1 + m^2)$	3
30	If the point P(2,2) is equidistant from the points A(-2,k) and B(-2k,-3), find k, also find the length of AP. OR The line segment joining the points P (3,3) and Q(6,-6) is trisected at the point A and B such that A is nearer to P. If A also lies on the line given by $2x+y+k=0$, find the value of k.	3
31	In the given figure, DEFG is a square and $\angle BAC=90^\circ$. Show that $FG^2=BG \times FC$  OR In the given figure, $\angle 1 = \angle 2$ and $\angle 3 = \angle 4$. Show that $PT \times QR = PR \times ST$. 	3
	Section -D	
	Section D consists of 4 questions of 5 marks each	
32	Solve graphically, the pair of equations $2x+y = 6$ and $2x-y = -2$. Find the ratio of the areas of the two triangles formed by the lines representing these equations with x-axis and lines with y-axis.	5
33	The hypotenuse of a right triangle is $3\sqrt{5}$ cm, if the smaller side is tripled and the largest side is doubled, the new hypotenuse will be 15cm. Find the length of each side. OR	5

	If twice the area of a smaller square is subtracted from the area of a larger square, the result is 14cm^2 . However, if twice the area of the larger square is added to three times the area of the smaller square, the result is 203cm^2 . Determine the sides of the square.	
34	State and prove Basic Proportionality Theorem. In the given figure if , $\frac{DP}{PE} = \frac{DQ}{QF}$ and $\angle DPQ = \angle DFE$, then show that $\triangle DEF$ is an isosceles triangle. 	5
35	Prove the following that : $\frac{\tan^3 \theta}{1+\tan^2 \theta} + \frac{\cot^3 \theta}{1+\cot^2 \theta} = \sec \theta \operatorname{cosec} \theta - 2 \sin \theta \cos \theta$ OR Prove that: $\frac{\sin \theta}{\cot \theta + \operatorname{cosec} \theta} = 2 + \frac{\sin \theta}{\cot \theta - \operatorname{cosec} \theta}$	5
Section E		
Section E consists of 3 case study based questions of 4 marks each.		
36	A morning walk may help improve your mental clarity and ability to focus throughout the day. A recent study found that amongst the older adults, those who started with a morning walk improve their cognitive functions, compared to those who remain sedentary. Walking may also help you think more creatively. In a morning walk three students step off together, their steps measure 80cm, 85cm and 90cm respectively. Based on the above information, answer the following questions: 1) Express 90 as a product of its primes. 2) Find the HCF of 80,85 and 90. 3) what is the minimum distance each should walk so that he can cover the distance in complete steps. OR, Find the smallest number which when divided by 80, 85 and 90 leaves remainder 7 in each case.	(1) (1) (2)
37	In a Maths class, teacher ask the students to mark the points (4,-1) and (-3,2) on a graph paper but Shweta mistakenly located the points (-1,4) and (3,-2). Based on the above information, answer the following questions: (i) Find the distance between the points, the teacher asked to mark. (ii) Find the midpoint of the line segment joining the points plotted by Shweta. (iii) Find the coordinates of the point which divides the join of points plotted by Shweta in the ratio 1:2 OR If all the four points are plotted on the graph paper, then find the mid-point of the line segment joining the points lying in II quadrant.	(1) (1) (2)
38	There is a game of tossing of three coins. The entry fee in the game is ₹200. Shikha takes entry into the game by paying the entry fee. The rules of the game are ; if she gets either	

one or two heads on tossing, entry fee is refunded. If she gets three heads, she receives double the amount paid as entry fee. Otherwise she loses the entry fee.

Based on the above information answer the following questions:

- (i) Write the total number of possible outcomes of the game.
- (ii) Find the probability that shikha loses the entry fee.
- (iii) Find the percentage of chances of getting ₹400.

OR,

In what percentage of cases Shikha loses her entry fee?

(1)

(1)

(2)

अभ्यास - प्रश्नपत्रम्
प्रथम सत्रम् (2024-25)
कक्षा - दशमी
संस्कृतम् (सम्प्रेषणात्मकम्)
कोड् सङ्ख्या - 119

समय: - 3 होरा:

पूर्णाङ्कः - 80

	'क' भागः (अपठितावबोधनम्)	(10 अङ्काः)
1.	<p>अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>विश्वस्य स्रष्टा ईश्वरः एकः एव अस्ति । सर्वे प्राणिनः च तस्य तनयाः सन्ति । अतः विश्वस्य सर्वेषु भागेषु स्थिताः जनाः रूपवर्ण-भाषा-संस्कृति भेदान् धारयन्तः अपि अभिन्नाः एव । यतोहि सर्वेषां मूलप्रवृत्तयः समानाः एव । यथा एकः जनः सम्माने सुखम् अपमाने च दुःखम् अनुभवति तथैव अन्येऽपि । अतः श्रेष्ठः जनः सः एव यः सर्वेषु प्राणिषु समानं व्यवहारं करोति, सर्वेषु स्निह्यति न कमपि पीडयति । यदि मनुष्यहृदये स्वार्थभावना भवति तर्हि सः श्रेष्ठकार्यं कर्तुं कदापि न शक्नोति । ये स्वार्थं परित्यज्य परोपकाराय स्वजीवनं यापयन्ति तेषां जीवनं सफलं भवति । तेषां जीवनं नित्यं परहिताय, परकल्याणाय भवति । सर्वविश्वं स्वकुटुम्बं मन्यमानाः ते कदापि उन्मार्गसेविनः न भवन्ति । नीतिमार्गं न परित्यजन्ति । ते स्वार्थं परित्यज्य सततं लोकसेवां कुर्वन्ति परदुःखेन दुःखिताः भवन्ति तथा परदुःखं निवारणाय नित्यं प्रयत्नशीलाः भवन्ति । अस्माकं प्राचीनेषु ग्रन्थेषु एतदेव कथितम् यत् संसारे भेदभावः न कर्तव्यः स्वार्थभावना विनाशं प्रति गच्छति । यथा परिवारे माता सर्वेषु पुत्रेषु स्निह्यति तथा समाने अपि सर्वेषां प्रति स्नेहभावः आचरितव्यः। उदारपुरुषाः सर्वं विश्वं स्वपरिवारवत् मानयन्ति । अतः महर्षिभिः उक्तम् - उदारचरितानां तु वसुधैव कुटुम्बम् ।</p> <p>अ. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) विश्वस्य स्रष्टा कः अस्ति ?</p> <p>(ii) परिवारे का सर्वेषु पुत्रेषु स्निह्यति?</p> <p>(iii) श्रेष्ठः जनः केषु समानं व्यवहारं करोति?</p> <p>आ. पूर्णवाक्येन लिखत - (केवलं प्रश्नद्वयम्)</p> <p>(i) महर्षिभिः किम् उक्तम्?</p> <p>(ii) यदि मनुष्यहृदये स्वार्थभावना भवति तर्हि किं भवति ?</p> <p>(iii) केषां जीवनं सफलं भवति?</p> <p>इ. अस्य अनुच्छेदस्य कृते उपयुक्तं शीर्षकं संस्कृतेन लिखत ।</p> <p>ई. यथानिर्देशम् उत्तरत - (केवलं प्रश्नत्रयम्)</p> <p>(i) 'मानयन्ति' इति क्रियापदस्य कर्तृपदं किं भवेत्?</p> <p>(क) जनाः (ख) उदारपुरुषाः</p> <p>(ग)माता (घ) श्रेष्ठः</p> <p>(ii) 'प्राचीनेषु' इति विशेषणपदस्य विशेष्यपदं किम्?</p> <p>(क) जनेषु (ख) कुटुम्बम्</p> <p>(ग) ग्रन्थेषु (घ) संस्कृतिः</p>	<p>10</p> <p>1x2=2</p> <p>2x2=4</p> <p>1</p> <p>1x3=3</p>

	<p>(iii) 'ते नीतिमार्गं न परित्यजन्ति ।' अत्र किं क्रियापदम्?</p> <p>(क) न (ख) ते</p> <p>(ग) परित्यजन्ति (घ) नीतिमार्गम्</p> <p>(iv) 'त्यक्त्वा' इति पदस्य किं पर्यायपदं गद्यांशे प्रयुक्तम्?</p> <p>(क) परित्यज्य (ख) परहिताय</p> <p>(ग) स्रष्टा (घ) तु</p>	
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'ख' भागः (रचनात्मकं कार्यम्)

(15 अङ्काः)

2.	<p>भवान् मनीषः इलाहाबादनगरे वसति । स्वमित्रम् हरीशं प्रति गंगाप्रदूषणविषये वर्णयन् लिखिते पत्रे रिक्तस्थानानि मञ्जूषायां प्रदत्तशब्दैः पूरयित्वा पत्रं पुनः लिखत ।</p> <p style="text-align: right;">दिनाङ्कः.....</p> <p style="text-align: right;">(i).....</p> <p>प्रिय (ii)</p> <p>सप्रेम नमोनमः ।</p> <p>अत्र (iii).....तत्रापि कुशलं कामये । तव अध्ययनम् सम्यक् चलति न वा ?</p> <p>आगामिमासे मम (iv)..... भविष्यति अतः अहमपि अध्ययनरतः अस्मि परं मित्र !</p> <p>अद्यत्वे मम नगरे गङ्गानद्याः (v)..... अनेकेषां कार्यक्रमाणां आयोजनं भवति यतः नद्याः (vi)..... अपेयम् अभवत् । एतस्माद् कारणात् जनाः (vii)..... पीडिताः सन्ति ।</p> <p>इदं जलस्य प्रदूषणस्य कारणात् अभवत् अतः इदं सर्वं दृष्ट्वा मया विचारितम् यत् केवलं सर्वकारस्य प्रयत्नैः एव समस्यायाः (viii)..... न भविष्यति । 'जलमेव जीवनम्' उक्तिः तु सर्वत्र श्रूयते परं जीवनरक्षकजलस्य (ix)..... प्रयत्नं कोऽपि न करोति । अतः अहं जनान् जागरुकाः करिष्यामि , त्वया अपि प्रयासः करणीयः । (x)..... मम प्रणामाः ।</p> <p>भवतः अभिन्नमित्रम्</p> <p>मनीषः</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p>रोगैः , मातृपितृचरणेषु , स्वच्छतायै , कुशलम् , हरीश , समाधानम् , जलम् , वार्षिकपरीक्षा , इलाहाबादतः , संरक्षणार्थम्</p> </div>	1/2x10=5
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3.	<p>*प्रदत्तं चित्रं दृष्ट्वा मञ्जूषायां प्रदत्तशब्दानां सहायतया पञ्च वाक्यानि संस्कृतेन लिखत –</p> 	1x5=5
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	<p>अध्यापक:- (v)..... </p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px;"> <p>(क) अस्माकं देशरक्षकान् सैनिकान् प्रति अपि अस्माकं कर्तव्यम् अस्ति </p> <p>(ख) अहं चिकित्साविज्ञानं पठिष्यामि ।</p> <p>(ग) अहं सेनायां चिकित्सकः भवितुम् इच्छामि </p> <p>(घ) उत्तमं जीवनलक्ष्यम् ।</p> <p>(ङ) चिकित्साक्षेत्रे बहुधनार्जनस्यापि अवसरः प्राप्यते </p> </div>	
	<p>‘ग’ भागः</p> <p>अनुप्रयुक्तव्याकरणम् (25 अङ्काः)</p>	
<p>5.</p>	<p>* अधोलिखितवाक्येषु रेखाङ्कितपदेषु सन्धिं सन्धिच्छेदं वा कुरुत- (केवलं प्रश्नचतुष्टयम्)</p> <p>(i) <u>एकैकपक्षे</u> मणीनां ग्रथितम् तथापि काकः न राजहंसः </p> <p>(ii) सरस्वत्याः कोशः <u>सम् + चयात्</u> क्षयं भवति </p> <p>(iii) सः <u>बाल्यात्+एव</u> शास्त्रपारङ्गतः आसीत् </p> <p>(iv) अश्वाः प्राणत्राणाय <u>इतस्ततः</u> अधावन् </p> <p>(v) मनसः निग्रहं <u>वायोः + इव</u> सुदुष्करं वर्तते </p>	<p>1×4=4</p>
<p>6.</p>	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां समासं विग्रहं वा प्रदत्तविकल्पेभ्यः चित्वा लिखत - (केवलं प्रश्नचतुष्टयम्)</p> <p>(i) <u>मदोद्धताः</u> कपयः प्रहस्य अवदन् ।</p> <p>(क) मदेन उद्धताः (ख) मदात् उद्धताः</p> <p>(ग) मदस्य उद्धताः (घ) मदाय उद्धताः</p> <p>(ii) <u>अनृतं</u> वदसि चेत् काकः दशेत् </p> <p>(क) अ नृतम् (ख) अन ऋतम्</p> <p>(ग) न ऋतम् (घ) अन नृतम्</p> <p>(iii) अये कथं <u>कृष्णः च अर्जुनः च</u> युधिष्ठिरः च </p> <p>(क) कृष्णार्जुनौ (ख) कृष्णार्जुनाः</p> <p>(ग) कृष्णार्जुनम् (घ) कृष्णार्जुनेषु</p> <p>(iv) भवान् <u>शक्तिम् अनतिक्रम्य</u> परिश्रमं कुर्यात् </p> <p>(क) शक्तिम् यथा (ख) यथाशक्तिम्</p> <p>(ग) शक्तिमनुसारम् (घ) यथाशक्तिः</p> <p>(v) काकः <u>सक्रोधं</u> प्रविश्य अकथयत् </p> <p>(क) क्रोधेन सह (ख) क्रोधे सह</p> <p>(ग) क्रोधं सह (घ) क्रोधाय सह</p>	<p>1×4=4</p>

7.	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रकृति-प्रत्ययौ संयोज्य विभज्य वा उचितम् उत्तरं विकल्पेभ्यः चित्वा लिखत - (केवलं प्रश्नचतुष्टयम्)</p> <p>(i) जगत्पतेः एषा सृष्टिः <u>रमणीया</u> ।</p> <p>(क) रमणीय + टाप् (ख) रमणीय + टाप् (ग) रमणीय + डीप् (घ) रमणीय + इक्</p> <p>(ii) भवन्तः किं वाचः <u>महत्त्वं</u> जानन्ति ?</p> <p>(क) महत् + त्व (ख) महत् +तल् (ग) महत् +मतुप् (घ) महत् + टाप्</p> <p>(iii) मनसः <u>चञ्चल+ तल्</u> कः निरोद्धुं क्षमः ??</p> <p>(क) चञ्चलता (ख) चञ्चलताम् (ग) चञ्चलतया (घ) चञ्चलतायाम्</p> <p>(v) मयूरस्य पिच्छाणाम् <u>मनोहारिन् + डीप्</u> शोभा सर्वेभ्यः रोचते</p> <p>(क) मनोहारि (ख) मनोहरम् (ग) मनोहारिन् (घ) मनोहारिणी</p> <p>(v) विद्वासः लोके <u>चक्षुष्मन्तः</u> प्रकीर्तिताः ।</p> <p>(क) चक्षुष् + डीप् (ख) चक्षुष् + तल् (ग) चक्षुष् + मतुप् (घ) चक्षुष् + त्व</p>	1×4=4
8.	<p>वाच्यानुसारम् उचितपदैः रिक्तस्थानानि पूरयित्वा अधोलिखितं संवादं पुनः लिखत - (केवलं प्रश्नत्रयम्)</p> <p>देवः - किम् छात्राः प्रार्थनां कुर्वन्ति ?</p> <p>मानवः - आम् ! छात्रैः(i)..... क्रियते ।</p> <p>देवः - किम् सर्वे प्रार्थनासभायाम् अनुशासने तिष्ठन्ति ?</p> <p>मानवः- आम् ! (ii).....अनुशासने स्थीयते ।</p> <p>देवः - - किम् तत्र एका छात्रा गीतं गायति ।</p> <p>मानवः - आम् तत्र एकया कन्यया गीतं(iii)..... ।</p> <p>देवः - किम् अतिथिना अपि तत्र आगम्यते?</p> <p>मानवः -सः अपि किञ्चिद् कालान्तरम् तत्र(iv).....</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">गीयते, सर्वैः , आगमिष्यति ,प्रार्थना</div>	1×3=3
9.	<p>कालबोधकशब्दैः अधोलिखित-दिनचर्या पूरयत- (केवलं प्रश्नत्रयम्)</p> <p>(i) अहं प्रातः 6:00..... वादने उत्तिष्ठामि ।</p> <p>(ii) ततः 6:15..... वादने भ्रमणाय गच्छामि ।</p> <p>(iii) तदनन्तरं 7:30.....वादने स्नानं कृत्वा ईशपूजां करोमि ।</p> <p>(iv) 8:45.....वादने कार्यालयं प्रति गच्छामि ।</p>	1×3=3

10.	<p>मञ्जूषायां प्रदत्तैः उचितैः अव्ययपदैः अधोलिखितवाक्येषु रिक्तस्थानानि पूरयत - (केवलं प्रश्नचतुष्टयम्)</p> <p>(i)अहं पर्वतीयमार्गे एकं व्याघ्रम् अपश्यम् (ii) भारति ! तव अयं कोशः कःअपूर्वः विद्यते (iii) सः बाल्यात्विनयशीलः वृद्धोपसेवी च आसीत् (iv)माता वदति , बालकः तथैव करोति (v) यूयंअतिवदसि ?</p> <p>मञ्जूषा -</p> <div style="border: 1px solid black; padding: 2px;">किमर्थम् , अपि , एव , यथा , ह्यः</div>	1×4=4
11.	<p>* अधोलिखितवाक्येषु रेखाङ्कित-अशुद्धपदाय उचितपदं चित्वा वाक्यानि पुनः लिखत - (केवलं प्रश्नत्रयम्)</p> <p>(i) अपूर्वा कोशः विद्यते तव भारति ! (क) अपूर्वः (ख) अपूर्वम् (ग) अपूर्वाः (घ) अपूर्व</p> <p>(ii) सः भवते चक्षुर्द्वयं प्रयच्छामि (क) वयम् (ख) अहम् (ग) आवाम् (घ) त्वम्</p> <p>(iii) अलं अलं मिथः कलहम् (क) कलहानि (ख) कलहे (ग) कलहाय (घ) कलहेन</p> <p>(iv) मदोद्धताः कपयः अवदत्। (क) अवदः (ख) अवदताम् (ग) अवदन् (घ) अवदम्</p> <p>(iv) अश्वाः प्राणत्राणाय इतस्ततः अधावत् (क) अधावम् (ख) अधावन् (ग) अधावाम (घ) अधावः</p>	1×3=3
<p>‘घ’ भागः पठितावबोधनम् (30 अङ्काः)</p>		
12.	<p>अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>अथ एकदा भगवान् बोधिसत्वः बहुजन्मार्जितपुण्यफलैः शिवीनां राजा बभूव । सः बाल्यात् एव वृद्धोपसेवी, विनयशीलः शास्त्रपारङ्गतः च आसीत् । जनकल्याणकर्मसु रतः असौ पुत्रवत् प्रजाः पालयति स्म । कारुण्य-औदार्यादिसद्गुणोपेतः स नगरस्य समन्ततः धन-धान्यसमृद्धाः दानशालाः अकारयत् । तत्र अर्थिनां समूहः अभीष्टानि वस्तूनि प्राप्य सन्तुष्टः अभवत् । राज्ञः दानशीलताम् आकर्ष्य देशान्तरेभ्योऽपि याचकाः तं देशम् आयान्ति स्म ।</p> <p>अ. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) कः शिवीनां राजा बभूव ? (ii) राज्ञः दानशीलताम् आकर्ष्य के तं देशम् आयान्ति स्म ? (iii) राजा नगरस्य समन्ततः धन-धान्यसमृद्धाः काः अकारयत् ?</p> <p>आ. पूर्णवाक्येन लिखत - (केवलं प्रश्नद्वयम्)</p> <p>(i) बोधिसत्वः बाल्यकालात् एव कीदृशः आसीत् ?</p>	<p>5</p> <p>½×2=1</p> <p>1×2=2</p>

	<p>(ii) किम् आकर्ष्य देशान्तरेभ्योऽपि याचकाः तं देशम् आयान्ति स्म ।</p> <p>(iii) केषां समूहः अभीष्टानि वस्तूनि प्राप्य सन्तुष्टः अभवत् ?</p> <p>* इ. निर्देशानुसारम् उत्तरत । (केवलं प्रश्नद्वयम्)</p> <p>(i) 'असौ पुत्रवत् प्रजाः पालयति स्म' अत्र 'असौ' पदस्य किं क्रियापदं प्रयुक्तम् ?</p> <p>(ii) 'धान्यसमृद्धाः' इति विशेषणपदस्य विशेष्यपदं किं प्रयुक्तम् ?</p> <p>(iii) 'जनाः तं देशम् आयान्ति स्म' इति वाक्ये कर्तृपदं किम् ?</p>	1×2=2
13.	<p>अधोलिखितं पद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>क्रोधाद्भवति सम्मोहः सम्मोहात्स्मृतिविभ्रमः । स्मृतिभ्रंशाद् बुद्धिनाशो बुद्धिनाशात्प्रणश्यति ॥ काम एष क्रोध एष रजोगुणसमुद्भवः । महाशनो महापाप्मा विद्ध्येनमिह वैरिणम् ॥</p> <p>अ. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) प्राणी कथं प्रणश्यति?</p> <p>(ii) सम्मोहः कस्मात् भवति?</p> <p>(iii) कः महाशनः ?</p> <p>आ. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) कौ रजोगुणात् समुद्भवतः ?</p> <p>(ii) कामः क्रोधः च कीदृशं विद्धि ?</p> <p>(iii) स्मृतिविभ्रमः कस्मात् भवति ?</p> <p>* इ. निर्देशानुसारम् उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) "स्मृतिभ्रंशाद् बुद्धिनाशो बुद्धिनाशात्प्रणश्यति " अत्र वाक्ये क्रियापदं किम् ?</p> <p>(ii) 'शत्रुम्' इत्यस्य किं पर्यायपदं प्रयुक्तम्?</p> <p>(iii) 'क्रोधः' इत्यस्य विशेषणपदं चित्वा लिखत ।</p>	5
		1/2×2=1
		1×2=2
		1×2=2
14.	<p>अधोलिखितं नाट्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>काकः-(प्रविश्य, सक्रोधम्) आः ! किम् उक्तवती भवती । यदि अहं कृष्णवर्णः तर्हि श्रीरामस्य वर्णः कीदृशः ? श्रीकृष्णस्य वर्णः कीदृशः ? मुग्धे ! अहं तु अतीव कर्तव्यपरायणः । प्रभाते का - का ध्वनिना सुप्तान् प्रबोधयामि कर्मसु च विनियोजयामि ।</p> <p>राजहंसः - हुँ ! किमनेन ? एतत् कार्यं तु कुक्कुटोऽपि करोति ।</p> <p>काकः- (विहस्य) कुक्कुटः । अरे अद्य कुतः कुक्कुटाः नगरेषु । अहमेव सर्वत्र सुलभः ।</p> <p>राजहंसी- भो भो वाचाल ! स्वीयैः कटुभिः क्वणितैः जनजागरणात् अन्यत् तु किमपि न करोषि ।</p> <p>काकः- अहो अज्ञानं भवत्याः । यस्य गृहस्य भित्तौ स्थित्वा आलपामि, जनाः प्रियस्य आगमनसंकेतं मत्वा हृष्यन्ति । किं बहुना ! अहम् तु एतादृशः सत्यप्रियः यत् मातरः शिशून् कथयन्ति - "अनृतं वदसि चेत् काकः दशेत् ।" अस्माकं ऐक्यं तु जगत्प्रसिद्धम् । सर्वथा जागरूकोऽहं छात्राणाम् कृते आदर्शः एव ।</p> <p>अ. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) केषां ऐक्यं जगत्प्रसिद्धम् ?</p> <p>(ii) राजहंसी काकं किं सम्बोधयति ?</p> <p>(iii) कुक्कुटाः कुत्र न दृश्यन्ते ?</p>	5
		1/2×2=1

	<p>आ. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) मातरः काकविषये शिशून् किं कथयन्ति ?</p> <p>(ii) काकः केषां कृते आदर्शः एव ?</p> <p>(iii) काकः प्रभाते किं करोति ?</p> <p>* इ. निर्देशानुसारम् उत्तरत। (केवलं प्रश्नद्वयम्)</p> <p>(i) 'कार्येषु' इत्यस्य किं पर्यायपदम् अत्र प्रयुक्तम् ?</p> <p>(ii) 'हृष्यन्ति' इति क्रियापदस्य कर्तृपदं किम् अत्र प्रयुक्तम् ?</p> <p>(iii) 'कटुभिः' इत्यस्य पदस्य विशेष्यपदं चित्वा लिखत।</p>	<p>1x2=2</p> <p>1x2=2</p>
15.	<p>* रेखाङ्कित-पदानि आधृत्य प्रश्ननिर्माणं कुरुत - (केवलं पञ्चप्रश्नाः)</p> <p>(i) <u>मनसः</u> निग्रहं वायोरिव सुदुष्करम् ।</p> <p>(ii) <u>रमणीया</u> हि सृष्टिः एषा ।</p> <p>(iii) पाठकस्य <u>षट्</u> गुणाः सन्ति ।</p> <p>(iv) <u>प्राज्ञः</u> कलहयुक्तं गृहं दूरतः परिवर्जयेत् ।</p> <p>(v) कामः एव <u>क्रोधं</u> जनयति ।</p> <p>(vi) राजा पुत्रवत् <u>प्रजाः</u> पालयति स्म ।</p>	1x5=5
16.	<p>समुचितपदानि चित्वा अधोलिखित-श्लोकस्य अन्वयं पूरयित्वा पुनः लिखत -</p> <p>चञ्चलं हि मनः कृष्ण ! प्रमाथि बलवद्दृढम् । तस्याहं निग्रहं मन्ये वायोरिव सुदुष्करम् ॥</p> <p>अन्वयः - (i) ! मनः हि चञ्चलं, (ii) प्रमाथि अहं (iii) निग्रहं (iv) इव सुदुष्करम् मन्ये ।</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>तस्य, वायोः, बलवद्दृढम्, कृष्ण</p> </div> <p style="text-align: center;">अथवा</p> <p>मञ्जूषायाः साहाय्येन श्लोकस्य भावार्थं रिक्तस्थानानि पूरयित्वा पुनः लिखत -</p> <p>शारदा शारदाम्भोजवदना वदनाम्बुजे । सर्वदा सर्वदाऽस्माकं सन्निधिं सन्निधिं क्रियात् ॥</p> <p>भावार्थः - शरदकालीन- (i) इव मुखवती विद्यादेवी माता सरस्वती अस्माकं मुखकमलस्य (ii) सदा (iii) निधिरूपेण (iv) क्रियात् ।</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>श्रेष्ठा, समीपे, कमलम्, निवासम्</p> </div>	<p>½x4=2</p> <p>½x4=2</p>
17.	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रसङ्गानुकूलम् उचितार्थं चित्वा लिखत- (केवलं प्रश्नचतुष्टयम्)</p> <p>(i) काकस्य <u>गात्रं</u> यदि काञ्चनस्य । (क) शरीरम्</p> <p>(ख) रूपम्</p>	1x4=4

	<p>(ग) वचनम्</p> <p>(ii) हा! दग्धा मे <u>घोटकाः</u> कथं रक्षणीयाः ?</p> <p>(क) घटिका</p> <p>(ग) अश्वः</p> <p>(iii) वानरयूथपतिः सर्वान् कपीन् <u>रहसि</u> अवदत् ।</p> <p>(क) रहस्यम्</p> <p>(ग) वने</p> <p>(iv) अलं अलं <u>मिथः</u> कलहेन ।</p> <p>(क) मिथ्या</p> <p>(ग) परस्परम्</p> <p>(v) नास्ति विद्यासमं <u>चक्षुः</u> ।</p> <p>(क) कर्णः</p> <p>(ग) नेत्रम्</p>	<p>(घ) सौन्दर्यम्</p> <p>(ख) वानराः</p> <p>(घ) गजाः</p> <p>(ख) एकान्ते</p> <p>(घ) राजभवने</p> <p>(ख) मिष्टान्नम्</p> <p>(घ) मृदुः</p> <p>(ख) मुखम्</p> <p>(घ) प्रसन्नः</p>	
18.	<p>अधोलिखित-कथां रिक्तस्थानानि पूरयित्वा पुनः लिखत –</p> <p>कस्मिंश्चित् नगरे चन्द्रः नामकः एकः (i).....अवसत् । तस्य (ii).....</p> <p>वानरक्रीडारताः प्रतिदिनं वानरसमूहं विविधैः (iii).....पुष्टं कुर्वन्ति स्म । तत्रैव राजगृहे</p> <p>बालवाहनयोग्यम् मेषयूथमपि आसीत् । तस्मिन् एकः मेषः (iv)..... लोलुपतावशात्</p> <p>दिवारात्रं महानसं प्रविश्य तत्र यद् (v).....पश्यति तदेव खादति । ततः पाचकाः यत्किञ्चित्</p> <p>काष्ठं मृण्मय-कांस्य - ताम्रपात्रम् वा पश्यन्ति, तेन एव शीघ्रं (vi) स्म । मेषस्य</p> <p>(vii)..... च कलहं दृष्ट्वा बुद्धिमान् वानरयूथपतिः अचिन्तयत्- “एतेषाम् कलहः (viii)</p> <p>..... हिताय नास्ति ।”</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px;"> <p>भोज्यपदार्थैः, ताडयन्ति, भोजनम्, राजा, जिह्वायाः, वानराणाम्, सूपकारणम्, पुत्राः</p> </div>		½×8=4

Sample Paper Science X

Term 1 (2024-25)


Time Allowed: 3 hours

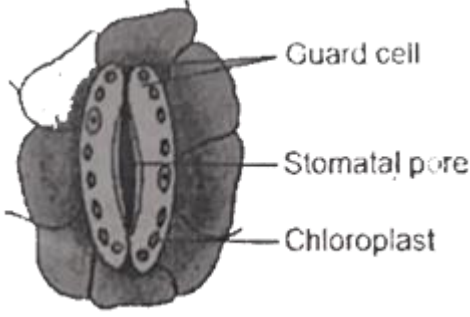
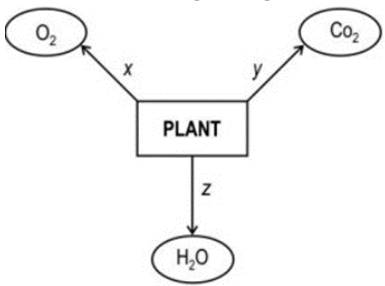
Maximum Marks : 80

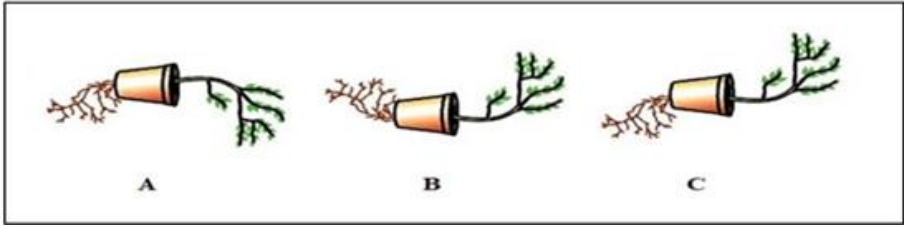
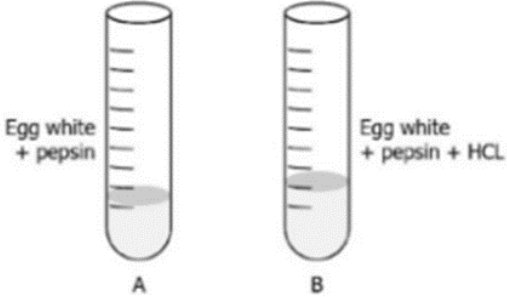
General Instructions:

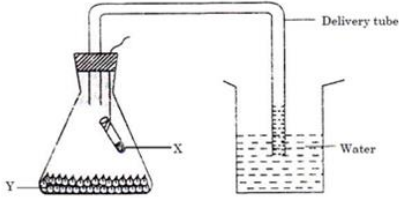
1. This question paper consists of 39 questions in 5 sections.
2. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
3. Section A consists of 20 objective type questions carrying 1 mark each.
4. Section B consists of 6 Very Short questions carrying 02 marks each. Answers to these questions should be in the range of 30 to 50 words.
5. Section C consists of 7 Short Answer type questions carrying 03 marks each. Answers to these questions should be in the range of 50 to 80 words.
6. Section D consists of 3 Long Answer type questions carrying 05 marks each. Answer to these questions should be in the range of 80 to 120 words.
7. Section E consists of 3 source - based/case - based units of assessment of 04 marks each with sub - parts.

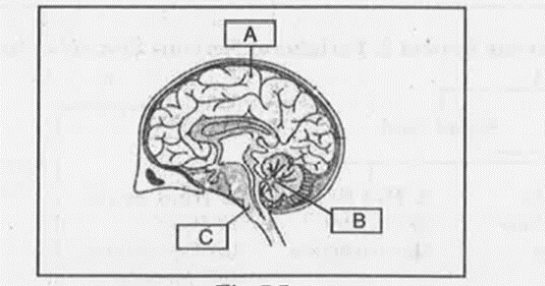
SECTION – A		
1	Chemically rust is: (a) Hydrated ferrous oxide (b) Hydrated ferric oxide (c) Only ferric oxide (d) None of these	1
2	Milky white precipitate disappears when excess CO_2 is passed due to the formation of- (a) Calcium hydroxide (b) Calcium chloride (c) Calcium bicarbonate (d) Calcium carbonate	1
3	Composition of aqua-regia by volume is : (a) Dil HCl (3) : Conc HNO_3 (1) (b) Conc HCl (3) : Dil HNO_3 (1) (c) Conc HCl (3) : Conc HNO_3 (1) (d) Dil HCl (3) : Dil HNO_3 (1)	1
4	In the reaction: $\text{PbO} + \text{C} \rightarrow \text{Pb} + \text{CO}$ (a) PbO is oxidised (b) C acts as an oxidising agent (c) Carbon acts as a reducing agent (d) Reaction does not represent redox reaction.	1

5	<p>When you clean a metal vessel with tamarind the reaction taking place is: $\text{Metal Oxide} + X \rightarrow \text{Salt} + \text{Water}$. What is X here?</p> <p>(a) Acid (b) Base (c) Hydrogen (d) Carbon dioxide</p>	1
6	<p>An element X is soft and can be cut with a knife. This is very reactive to air and cannot be kept open in air. It reacts vigorously with water. Identify the element from the following</p> <p>(a) Mg (b) Na (c) P (d) Ca</p>	1
7	<p>A student adds lead and silver to two different test tubes containing an equal amount of Copper Sulphate solution. The student observes that the color of the solution in the test tube with lead changes. What explains the change in the color of the solution?</p> <p>(a) A displacement reaction takes place as lead replaces copper from the solution. (b) A combination reaction takes place as lead combines with sulphate in the solution. (c) Decomposition reaction takes place as copper dissociates from sulphate in the solution. (d) A double displacement reaction takes place as copper dissociates from sulphate and lead combines with sulphate in the solution.</p>	1
8	<p>Identify the phase of circulation which is represented in the diagram of heart given below. Arrows indicate contraction of the chambers shown:</p>  <p>a) Blood transferred to the right ventricle and left ventricle simultaneously. b) Blood is transferred to lungs for oxygenation and is pumped into various organs simultaneously. c) Blood transferred to the right auricle and left auricle simultaneously. d) Blood is received from the lungs after oxygenation and is received from various organs of the body.</p>	1
9	<p>Which one of the following conditions is true for the state of stomata of a green leaf shown in the given diagram?</p>	1

	 <p>Guard cell Stomatal pore Chloroplast</p> <p>a) Large amount of water flows into the guard cells. b) Gaseous exchange is occurring in large amount. c) Large amount of water flows out from the guard cells. d) Large amount of sugar collects in a guard cells.</p>	
10	<p>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?</p> <ol style="list-style-type: none"> 1. Cerebrum 2. Cerebellum 3. Skeletal muscles 4. Medulla oblongata <p>a) Only 1 b) Only 1 & 3 c) Only 1,3 & 4 d) Only 1,2 & 3</p>	1
11	<p>Look at the diagram given below:</p>  <p>Identify the process taking place at Z:</p> <p>a) Reproduction b) Transpiration c) Photosynthesis d) Translocation</p>	1
12	<p>When a 4V battery is connected across an unknown resistor there is a current of 100mA in the circuit. The value of the resistance of the resistor is</p> <ol style="list-style-type: none"> (i) 4Ω (ii) 40Ω (iii) 400Ω (iv) 0.4Ω 	1
13	<p>The strength of a magnetic field inside a long current-carrying straight solenoid coil is-</p> <ol style="list-style-type: none"> (i) More at the ends than at the centre. (ii) Minimum in the middle. (iii) Same at all points. 	1

	(iv) Found to increase from one end to the other.	
14	The resistance of an alloy- (i) Increase with temperature. (ii) Decrease with temperature. (iii) Is constant with rise in temperature. (iv) Is zero.	1
15	Observe the three figures given below:  Which of the following depicts tropic movements appropriately? a) B & C b) A & C c) B only d) C only	1
16	A student set up an experiment to study the role of enzymes in digestion of food.  In which test tube the digestion of protein will occur? a) Test tube A as pepsin will breakdown into simple molecules b) Test tube B as HCl will breakdown protein into simple molecules c) Test tube A as pepsin will breakdown into simple molecules d) Test tube B as HCl will activate pepsin for breakdown of protein into simpler molecules.	1
	Question No. 17 to 20 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	
17	Assertion (A): After white washing the walls, a shiny white finish on walls is obtained after two to three days. Reason (R): Calcium Oxide reacts with Carbon dioxide to form Calcium Hydrogen Carbonate which gives shiny white finish.	1
18	Assertion (A): Resins and gums are stored in old xylem tissue in plants. Reason (R): Resins and gums facilitates transport of water molecules	1

19	Assertion (A): There is frequent urination in summers than in winters. Reason (R): In summers we loose a lot of water as sweat, so the kidneys reabsorb more water. Hence, urine formed is less in summer than in winters.	1
20	Assertion-Two bulbs A and B are rated as 100 W, 220 V and 40 W, 220 V respectively. Resistance of bulb A is more than that of bulb B. Reason-For a given potential difference the power consumed in a resistor is directly proportional to its resistance.	1
SECTION – B		
21	State reasons for the following: (i) Ionic compounds do not conduct electricity in solid state. (ii) From dilute hydrochloric acid, zinc can liberate hydrogen gas but copper cannot.	2
22	In the experimental setup shown,  A) Name the material X filled in the small test tube and the material Y placed at the bottom of the conical flask. B) Why is there rise in the water level in the delivery tube?	2
23	Give reasons A) People living in hilly regions get goitre. B) Endocrine glands release their secretions into blood.	2
24	Name the two factors that completely define a magnetic field at a point.	2
25	The resistance of a resistor is kept constant and the potential difference across its two ends is decreased to half of its former value. State the change that will occur in the current flowing through it.	2
26	The charge possessed by an electron is 1.6×10^{-19} coulomb. Find the number of electrons that will flow per second to constitute a current of one ampere.	2
SECTION – C		
27	What type of chemical reactions take place when: (a) Limestone is heating? (b) A magnesium wire is burnt in air? (c) Electricity is passed through water?	3
28	A metal E is stored under kerosene. When a small piece of it is left open in air, it catches fire. When the product formed is dissolved in water, it turns red litmus to blue. a. Name the metal E.	3

	<p>b. Write the chemical equation for the reaction when the metal E is exposed to air.</p> <p>c. Write the chemical equation for the reaction when the product obtained above is dissolved in water.</p>									
29	How is lymph an important fluid involved in transportation? If lymph vessels get blocked, how would it affect the human body? Elaborate.	3								
30	<p>Identify the labeled parts A, B & C in the given diagram and mention their importance.</p> 	3								
31	What is a solenoid? Mention two ways to increase the strength of the magnetic field of a solenoid.	3								
32	<p>i) Two identical resistors are first connected in series and then in parallel. Find the ratio of equivalent resistances in two cases.</p> <p>ii) Table gives the resistivity of three samples (in Ωm):</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Resistivity</td> <td>1.6×10^{-8}</td> <td>7.5×10^{17}</td> <td>44×10^{-6}</td> </tr> </tbody> </table> <p>Which of them is a good conductor? Why?</p>	Sample	A	B	C	Resistivity	1.6×10^{-8}	7.5×10^{17}	44×10^{-6}	3
Sample	A	B	C							
Resistivity	1.6×10^{-8}	7.5×10^{17}	44×10^{-6}							
33	<p>With the help of a labeled diagram, Discuss the mechanism of breathing in human beings.</p> <p style="text-align: center;">OR</p> <p>Describe an experiment to prove that carbon – dioxide is essential for the process of photosynthesis</p>	3								
SECTION – D										
34	<p>(i) Match the following pH values 1, 7, 10, 13 to the solutions given below:</p> <p>a. Milk of magnesia</p> <p>b. Gastric juices</p> <p>c. Brine</p>	5								

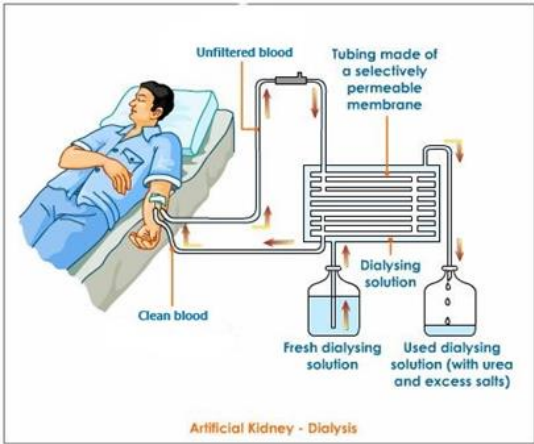
	<p>d. Aqueous Sodium hydroxide.</p> <p>(ii) Amit and Rita decided to bake a cake and added baking soda to the cake batter. Explain with a balanced reaction, the role of the baking soda. Mention any other use of baking soda.</p> <p style="text-align: center;">OR</p> <p>a. Four samples A, B, C and D change the colour of pH paper or solution to Green, Reddish-pink, Blue and Orange. Their pH was recorded as 7, 2, 10.5 & 6 respectively. Which of the samples has the highest amount of Hydrogen ion concentration? Arrange the four samples in the decreasing order of their pH.</p> <p>b. Rahul found that the Plaster of Paris, which he stored in a container, has become very hard and lost its binding nature. What is the reason for this? Also, write a chemical equation to represent the reaction taking place.</p> <p>c. Give any one use of Plaster of Paris other than for plastering or smoothening of walls.</p>	
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<p>35</p>	<p>(A) The image shows the circulation of blood in fishes and humans:</p> <div style="text-align: center;"> </div> <p>How is the circulation of blood in fishes different from that in humans?</p> <p>(B) State the significance of separation of right and left side of heart.</p> <p style="text-align: center;">OR</p> <p>A) How does paramecium obtain its food?</p> <p>B) Complete the following charts as per the given instructions: Name a, b and c and write their functions d, e and f respectively.</p> <div style="text-align: center;"> <table border="1" style="margin: auto;"> <tr> <td colspan="3" style="text-align: center;">Gastric glands present in the wall of stomach.</td> </tr> <tr> <td colspan="3" style="text-align: center;">Secretions</td> </tr> <tr> <td style="text-align: center;">a</td> <td style="text-align: center;">b</td> <td style="text-align: center;">c</td> </tr> <tr> <td style="text-align: center;">Function</td> <td style="text-align: center;">Function</td> <td style="text-align: center;">Function</td> </tr> <tr> <td style="text-align: center;">d</td> <td style="text-align: center;">e</td> <td style="text-align: center;">f</td> </tr> </table> </div>	Gastric glands present in the wall of stomach.			Secretions			a	b	c	Function	Function	Function	d	e	f	<p>5</p>
Gastric glands present in the wall of stomach.																	
Secretions																	
a	b	c															
Function	Function	Function															
d	e	f															

36	Define resistance of a conductor. State the factors on which resistance of a conductor depends. Name the device which is often used to change the resistance without changing the voltage source in an electric circuit. Calculate the resistance of 50 cm length of wire of cross sectional area 0.01 square mm and of resistivity $5 \times 10^{-8} \Omega \text{ m}$. (Board Term I, 2014)	2 1 1 1
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SECTION – E

37	<p>Oxidation is the process of gaining of oxygen, or losing of hydrogen. Reduction is the process of losing of oxygen or gaining of hydrogen. The substance which undergoes oxidation is the reducing agent while the substance which undergoes reduction is known as the oxidising agent. Oxidation and reduction always take place together and these types of reactions are known as redox reactions. Some of the examples of redox reactions are given below:</p> <p>a. Identify the reducing agent in the following reaction</p> $4 \text{NH}_3 + 5 \text{O}_2 \rightarrow 4 \text{NO} + 6 \text{H}_2\text{O}$ <p>b. Identify the oxidising agent in the following reaction</p> $\text{Pb}_3\text{O}_4 + 8 \text{HCl} \rightarrow 3 \text{PbCl}_2 + \text{Cl}_2 + 4 \text{H}_2\text{O}$ <p>c. Write down any two harmful effects of oxidation reaction in daily life.</p> <p style="text-align: center;">OR</p> <p>Explain the term “oxidation” and “Reduction” in terms of Hydrogen.</p>	4
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38	<p>Hemodialysis is a process used to clean human blood and remove impurities. A dialysis machine and a special filter called an artificial kidney are used to clean the blood. It is used for the person whose kidneys are not working normally. Hemodialysis requires minor surgery, usually in the arm.</p> <div style="text-align: center;">  </div> <p>A)i) Name the filtering units present in the human kidneys. ii) Name the main excreting waste removed by the kidneys from the blood. B)What are the two main functions of kidneys?</p>	4
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	<p>C)What are the major factors on which the amount of water reabsorbed in the parts of nephron depends?</p> <p style="text-align: center;">OR</p> <p>D)i) In what manner dialysis machine works differently as compared to kidneys?</p> <p>ii)Name the substances other than water that are reabsorbed during urine formation.</p>	
39	<p>The domestic electric circuit consists of a red insulated cover called as live wire, wire with black insulation called neutral wire and the wire with green insulation is called Earth wire. We know that the fuse is connected in series with the circuit to prevent the damaging of electrical appliances and circuit from overloading. Overloading occurs when live wire and the neutral wire come in direct contact with each other. Because of which current through the circuit increases suddenly. Also, overloading may occur because of connecting many appliances to a single socket. The Earth wire which is green in color is connected to a metal plate deep in the earth near the house. This type of safety measure is used in appliances like electric press, toaster, table fan, refrigerator etc. The Earth wire gives low resistance conducting path for the electric current. In this way it protects us from severe electric shock.</p> <p>All the appliances are connected in a parallel circuit so that the potential difference across each appliance will be the same.</p> <p>1) What are the signs of live wire and neutral wire?</p> <p>2) In our country what is the potential difference between live wire and neutral wire?</p> <p>3) What is short circuiting?</p> <p>Or</p> <p>3) What is the main purpose of using fuse in electric circuit?</p>	4

MARKING SCHEME

SECTION - A		
1	(b) Hydrated ferric oxide	1
2	(c) Calcium bicarbonate	1
3	(c) Conc HCl (3) : Conc HNO ₃ (1)	1
4	(c) Carbon acts as a reducing agent	1
5	(a) Acid	1
6	(b) Na	1
7	(a) A displacement reaction takes place as lead replaces copper from the solution.	1
8	(B) Blood is transferred to lungs for oxygenation and is pumped into various organs simultaneously.	1
9	(C) Large amount of water flows out from the guard cells.	1
10	(D) Only 1,2 & 3	1
11	(B)	1
12	40Ω V=IR, V=4V, I=100mA =0.1A R=V/I=4/0.1=40Ω	1
13	Same at all points	1
14	Increase with temperature.	1
15	D	1
16	D	1
17	(C) A is true and R is false	1
18	(D) A is False and R is true	1
19	(C) A is true and R is false	1
20		1
SECTION – B		
21	(a) Non availability of free ions (b) Zinc is more reactive than hydrogen and hydrogen is more reactive than copper.	1 1
22	A) X – KOH Pellets Y is Wet Germinating seeds B) Seeds use oxygen present in the flask and release CO ₂ , which is absorbed by KOH. Thus, partial vacuum is created in the conical flask as a result water from the beaker rises in the delivery tube.	½ ½ 1
23	A) The people living in the hilly regions do not have enough iodine in their food. The hormone thyroxine is not released from the thyroid gland in sufficient amount. Hence they have a risk of getting goitre B) Endocrine glands don't have ducts and pass their secretions known as hormones into the surrounding blood for transfer to site of action.	1 1
24	1. The strength 2. and the direction of magnetic field at a	1 1

	given point.	
25	Current is reduced to half, according to $I=V/R$ complete derivation	1 1
26	$I= 1 \text{ A}$, $t= 1\text{s}$, $e = 1.6 \times 10^{-19} \text{ C}$ $q=ne$ $i=q/t$ $n = It/e$ $= 6.25 \times 10^{18} \text{ electrons}$	1+1
SECTION – C		
27	(a) Thermal Decomposition (b) Combination (c) Electrolytic Decomposition	1 1 1
28	a) Sodium / Potassium b) Chemical Equation c) Chemical Equation	1 1 1
29	Lymph carries digested and absorbed fat from the intestine and drains excess fluid from extracellular space back into the blood. Blockage of lymphatic system will lead to water retention and poor fat absorption in the body.	1 2
30	A) Cerebrum-Which performs thinking, reasoning, speech, intelligence and usage of information B) Cerebellum-It controls and coordinates different muscular actions. It is responsible for voluntary actions and maintains the equilibrium of the body during walking, drinking, catching, etc. C) Medulla-It controls involuntary actions and regulates reflex responses. It also controls blood pressure, salivation, and vomiting.	1 1 1
31	Definition increasing the current flow through the solenoid. increasing the no of turns per unit length of the solenoid.	1 1 1
32	i) $R_s = R + R = 2R$ $R_p = 2/R$ $R_s/R_p = 4:1$ ii) Sample A is good conductor because resistivity is very small.	1 1 1

	<p>amount of energy thus maintaining their constant body temperature. (Warm-blooded animals)</p> <p style="text-align: center;">OR</p> <p>A) The hair-like structures called cilia present on the paramecium help in collecting the food and movement. They sweep the food inside the paramecium through the oral groove.</p> <p>B)</p> <p>Ans: a - Hydrochloric acid (HCl)</p> <p>b - Pepsin</p> <p>c - Mucus</p> <p>d - HCl makes medium acidic for the activation of an enzyme pepsin.</p> <p>e - Pepsin acts in an acidic medium, which breaks down proteins into peptones.</p> <p>f - The mucus protects the inner lining of the stomach from the corroding action of HCl.</p>	<p>2</p> <p>1/2X 6=3</p>
36	<p>Resistance is the property of a conductor to resist the flow of charges through it.</p> <p>Factors affecting resistance of a conductor:</p> <p>Refer to answer 17(i)</p> <p>Rheostat is the device which is often used to change the resistance without changing the voltage source in an electric circuit.</p> <p>We are given, length of wire, $l = 50 \text{ cm} = 50 \times 10^{-2} \text{ m}$ cross-sectional area, $A = 0.01 \text{ mm}^2$ $= 0.01 \times 10^{-6} \text{ m}^2$ and resistivity, $\rho = 5 \times 10^{-8} \Omega \text{ m}$. As, resistance, $R = \rho l/A$</p> <p>Answer:</p> <p>$\therefore R = 2.5 \Omega$</p>	<p>2</p> <p>1</p> <p>1</p> <p>1</p>
SECTION - E		
37	<p>a. NH_3</p> <p>b. Pb_3O_4</p> <p>c. Any two effects</p> <p style="text-align: center;">OR</p> <p>Definition</p> <p>Oxidation</p> <p>Reduction</p>	<p>1</p> <p>1</p> <p>2</p>

38	<p>A)i) Nephron</p> <p>ii) Nitrogenous waste (Urea)</p> <p>B) Removal of nitrogenous waste, Osmoregulation</p> <p>C) Factor- How much amount of nitrogenous waste has to be excreted out?</p> <p style="text-align: center;">Or</p> <p>D) i) Selective reabsorption</p> <p>ii) Glucose, amino acids, salts</p>	<p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>2</p> <p>1</p> <p>1</p>
39	<p>1) The red insulated wire is the live wire or positive and the black insulated wire is the neutral wire or negative.</p> <p>2) In our country the potential difference between live wire and neutral wire is 220 V.</p> <p>3) When live wire and neutral wire come in direct contact, in that situation the current through the circuit increases suddenly and it is called short circuiting.</p> <p style="text-align: center;">Or</p> <p>3) Because of Joule's heating effect the heat produced causes the fuse to melt and to break the circuit. And thereby protect the circuit and electric appliances.</p>	<p>1</p> <p>1</p> <p>2</p> <p>2</p>

SOCIAL SCIENCE SAMPLE PAPER

CLASS X

GENERAL INSTRUCTIONS:

- The question paper comprises Six Sections – A, B, C, D, E and F.
- There are 37 questions in the Question paper. All questions are compulsory.
- Section A – From questions 1 to 20 are MCQs of 1 mark each.
- Section B – Questions no. 21 to 24 are Very Short Answer Type Questions, carrying 2 marks each. The answer to each question should not exceed 40 words.
- Section C contains Q. 25 to Q.29 are Short Answer Type Questions, carrying 3 marks each. The answer to each question should not exceed 60 words
- Section D – Questions no. 30 to 33 are long answer type questions, carrying 5 marks each. The answer to each question should not exceed 120 words.
- Section-E - Questions no from 34 to 36 are case-based questions with three sub-questions and are of 4 marks each. The answer to each question should not exceed 100 words.
- Section F – Question no. 37 is map-based, carrying 5 marks with two parts, 37a from History (2 marks) and 37b from Geography (3 marks).

1. The first three successful Satyagraha movements by Gandhiji in India were:

- a) Against the Rowlatt Act, Civil Disobedience Movement and Quit India
- b) Khilafat movement, Non-Cooperation, and Quit India movement
- c) Peasants Movements in Champaran in Bihar, Kheda district in Gujarat, and in Ahmedabad by cotton mill workers
- d) Non-Cooperation Movement, Civil Disobedience, and Khilafat

2. It is a 200-year-old system of tapping stream and spring water by using bamboo pipes in Meghalaya.

- a) under ground water storage system
- b) bamboo drip irrigation system
- c) roof top rain water harvesting
- d) rain water harvesting system

3.

Some comparative Data on Haryana, Kerala and Bihar			
State	Infant Mortality Rate (per thousand person)	Literacy Rate %	Net Attendance Ratio (per 100 person)
Haryana	30	82	61
Kerala	7	94	83
Bihar	32	62	43

How much is the Net Absence Ratio of Haryana? Choose the appropriate option from the following:

- a) 38
 - b) 39
 - c) 27
 - d) 18
4. When was the Project Tiger launched?
- a) 1976
 - b) 1970
 - c) 1973
 - d) 1979
5. The place in Rajasthan where India conducted its nuclear tests:
- a) Pokharan
 - b) Champaran
 - c) Ajmer
 - d) Udaipur
6. Identify the appropriate reason from the following options, for the non-participation of industrial workers in the Civil Disobedience Movement.
- a) British offered them good salaries
 - b) Industrialists were close to the Congress
 - c) They were reluctant towards the boycott of foreign goods
 - d) Growth of Socialism
7. **Assertion (A):** Zilla Parishad chairperson is the political head of the Zilla Parishad.
Reason (R): Mayor is the head of municipalities.
- 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.

8. Fill in the blank:

SECTOR	CRITERIA USED
Organized & Unorganized	Nature of employment activities
Public & Private	?

- a) Nature of Production activities
 - b) Nature of economic activities
 - c) Nature of Ownership
 - d) Nature of Social activities
9. What is a coalition government?
- a) Alliance of two or more parties
 - b) Alliance of different social groups
 - c) Power shared among different organs of government
 - d) Power shared among different levels of government

10. Identify the painting from the options given below.



- a) Frankfurt parliament
b) The proclamation of the German empire
c) Duma
d) Unification of Germany

11. **Assertion (A):** The growing population is the main reason for water scarcity.

Reason (R): Irrigation from tube wells and canals is responsible for water scarcity.

- 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.

12. State true or false:

In federalism, power is divided between various constituent unit and states.

13. Regarding the idea of Satyagraha, Arrange the following sentences in the correct order:

- i. Mahatma Gandhi successfully organised satyagraha movements in various places.
- ii. Mahatma Gandhi returned to India in January 1915.
- iii. The idea of satyagraha emphasised the power of truth and the need to search for truth.
- iv. Mahatma Gandhi believed that this dharma of non-violence could unite all Indians.

- a) i, iii, iv, ii
b) i, ii, iv, iii
c) ii, iii, iv, i
d) iv, i, ii, iii

14. **Read the information given below and select the correct option**

Kanta works in an office. She attends her office from 9.30 a.m. to 5.30 p.m. She gets her salary regularly at the end of every month. In addition to the salary, she also gets provident fund as per the rules laid down by the government. She also gets medical and other allowances. Kanta does not go to the office on Sundays. This is a paid holiday. When she joined work, she was given an appointment letter stating all the terms and conditions of work. In which sector Kanta is engaged? Tick the most appropriate option.

- a) Unorganised Sector
b) Organised Sector
c) Secondary Sector
d) Primary Sector

24. Give reasons for the growth of service sector in India.
25. Why growth of nationalism in the colonies is linked to an anti-colonial movement. Explain.
26. Distinguish between Khadar and Bhangar.
27. Why do you think NREGA 2005 is referred to as 'Right to work'? Imagine that you are the village head. In that capacity suggest some activities that you think should be taken up under this act that would also increase the income of people. Discuss.
28. Differentiate between Federal Government and the Unitary Government.
29. Justify the statement with suitable example that, "Nationalism, aligned with imperialism, led Europe to disaster in 1914."

SECTION D

30. Explain any five proper farming techniques which can be used for soil conservation. OR "Consequences of environmental degradation do not respect national or state boundaries". Support the statement with examples.
31. Explain the term conservatism. Explain with special reference to Europe.
OR
Explain the process of unification of Italy.
32. What are the different forms of power sharing in modern democracies? Give an example of each of these.
OR
What is Coalition Government? What is its impact on Indian politics?
33. What is the significance of Secondary sector in Indian economy?
OR
"Consequences of environmental degradation do not respect national or state boundaries". Justify the statement

SECTION E

34. Read the text carefully and answer the questions:

The first clear expression of nationalism came with the French Revolution in 1789. France was a full-fledged territorial state in 1789 under the rule of an absolute monarch. The political and constitutional changes that came in the wake of the French Revolution led to the transfer of sovereignty from the monarchy to a body of French citizens. The revolution proclaimed that it was the people who would henceforth constitute the nation and shape its destiny. From the very beginning, the French revolutionaries introduced various measures and practices that could create a sense of collective identity amongst the French people. The ideas of La Patrie and Le Citoyen emphasised the notion of a united community enjoying equal rights under a constitution. A new French flag, the tricolour, was chosen to replace the former royal standard. The Estates-General was elected by the body of active citizens and renamed the National Assembly. New hymns were composed, oaths taken and martyrs commemorated, all in the name of the nation. A centralized administrative system was put in place and it formulated uniform laws for all citizens within its territory. Internal customs duties and dues were abolished

and a uniform system of weights and measures was adopted. Regional dialects were discouraged and French became the common language of the nation.

- (a) What was the major change that occurred in the political and constitutional scenario due to the French Revolution in Europe?
- (b) Mention the proclamation of the French Revolution.
- (c) Mention any two policies or practices that helped people feel a sense of community.

35. Read the text carefully and answer the questions

A dam is a barrier across flowing water that obstructs, directs or retards the flow, often creating a reservoir, lake or impoundment. "Dam" refers to the reservoir rather than the structure. Most dams have a section called a spillway or weir over which or through which it is intended that water will flow either intermittently or continuously. Dams are classified according to structure, intended purpose or height. Based on structure and the materials used, dams are classified as timber dams, embankment dams or masonry dams, with several subtypes. According to the height, dams can be categorised as large dams and major dams or alternatively as low dams, medium height dams and high dams.

- (a) What does the word 'Dam' actually refer to?
- (b) Mention any one benefit of a Multi-purpose River Valley Project.
- (c) How have multi-purpose river valley projects a cause of social movements? Explain.

36. Read the text carefully and answer the questions

: Besides seeking more income, one way or the other, people also seek things like equal treatment, freedom, security, and respect of others. They resent discrimination. All these are important goals. In fact, in some cases, these may be more important than more income or more consumption because material goods are not all that you need to live. Similarly, there are many things that are not easily measured but they mean a lot to our lives. These are often ignored. However, it will be wrong to conclude that what cannot be measured is not important. For development, people look at a mix of goals. It is true that if women are engaged in paid work, their dignity in the household and society increases. However, it is also the case that if there is respect for women there would be more sharing of housework and a greater acceptance of women working outside. A safe and secure environment may allow more women to take up a variety of jobs or run a business. Hence, the developmental goals that people have are not only about better income but also about other important things in life.

- (a) Explain how people look at a mix of goals for development with an example.
- (b) That which cannot be measured is not important for development. State a reason either in favour or against the statement

SECTION F

37. A Two features A and B are marked in the given political map of India. Identify these features with the help of the following information and write their correct names on the lines marked on the map.

- i. 1. Place where non-cooperation movement was called off
- ii. 2. Place where no tax campaign was started



B On the political outline map of India given below, identify the soil types in (i), (ii), (iii).

