

Class: X Session: 2020-21
Computer Applications (Code 165)
Sample Question Paper (Theory)

Maximum Marks: 50

Time Allowed: 2 hours

General Instructions:

1. This question paper contains two parts A and B. Each part is compulsory.
2. Part A carries 20 marks while part B carries 30 marks.
3. Part-A consists very short answer and case based MCQ Questions and Part-B is Descriptive Paper.
4. Both Part A and Part B have choices.

Part – A:

1. It consists two sections- I and II.
2. Section I has 13 questions of very short answer type. An examinee is to attempt any 10 out of 13 questions.
3. Section II has two case studies. Each case study has 7 case-based sub-parts. An examinee is to attempt any 5 out of 7 sub-parts.

Part – B:

1. Question No. 16 to 20 are short answer Type (SA-I) questions of 2 mark each, Question No 21 to 25 are Short Answer Type (SA-II) questions of 3 marks each and Question No 26 is Long Answer Type question of 5 marks.
2. Internal choice is provided in 1 question of 2 marks, 1 question of 3 marks and 1 question of 5 marks.

Question No.	Part-A	Marks allocated
	Section-I This section consists of 13 questions of very short answer type. Question no. 4 to 8 are of 'fill in the blank' type. Fill the blank with the most appropriate answer. Attempt any 10 questions from question no 1 to 13.	
1	What is a Homepage?	1

2	Which heading element gives the most prominent headings?	1
3	Give one use of anchor tag.	1
4	_____ tag is used for a horizontal line.	1
5	An empty HTML element has a _____ tag but no _____ tag.	1
6	_____ tag creates a bulleted list.	1
7	The code for inserting an image in an HTML page is <code><imgsrc=" " alt=" "></code> . The alt attribute is used for _____	1
8	Ravi was trying to log-in to his net-banking account. He noticed that the URL of the net banking starts with 'https'. The 's' in 'https' stands for _____	1
9	Sarita is designing a webpage and wants to change the name of the font (font-type) for certain text. Which attribute of the FONT tag she should use.	1
10	What is the use of <code>
</code> tag in HTML Code?	1
11	What is the significance of the URL?	1
12	What is the importance of vlink attribute of <code><BODY></code> tag?	1
13	What is the method of using comment line in the HTML code?	1
	Section-II Both the Case study based questions are compulsory. Attempt any 5 questions (out of 7 questions) from each case study. Each question carries 1 mark	
14	Internet Protocols For communication over the Internet, the communicating devices must follow certain rules. These rules are called Internet protocols. For email communication, we use SMTP	

	and POP. For communication between browser and server HTTP and HTTPS protocols are used. We can use TELNET to access services available on a remote computer.	
(i)	Which of the following is an Internet Protocol. a) HTTP b) FTP c) both (a) and (b) d) None of the above	1
(ii)	SMTP protocol is a) used for composing an emailmessage. b) used in receiving incoming emails by pulling the message from server to client c) used in sending outgoing emails by pushing the message from client to server d) None of the above	1
(iii)	POP protocol is a) used for composing an emailmessage. b) used in receiving incoming emails by pulling the message from server to client c) used in sending outgoing emails by pushing the message from client to server d) None of the above	1
(iv)	Which of the following internet protocols provides secure data transmission between server and browser with the help of encryption. a) HTTP b) HTTPS c) TELNET d) ARPANET	1

(v)	<p>The full form of POP (email protocol) is</p> <ul style="list-style-type: none"> a) Post Order Protocol b) Push Order Protocol c) Post Office Protocol d) Pull Over Protocol 	1
(vi)	<p>Which of the following protocol is used for delivering data from the source to the destination.</p> <ul style="list-style-type: none"> a) TCP b) IP c) SMTP d) ARPANET 	1
(vii)	<p>The Full Form of SMTP is</p> <ul style="list-style-type: none"> a) Secure Mail Transfer Protocol b) Secure Mail Transmit Protocol c) Simple Mail Transmit Protocol d) Simple Mail Transfer Protocol 	1
15	<p style="text-align: center;">Secure data transmission</p> <p>Secure data transmission means that data/information is not being received or modified by an unauthorized person, over a network, from source to destination. For secure data transmission, we can convert an actual message (which is in readable form) into an unreadable message (called an encrypted message) with the help of the concept of encryption. This unreadable message is sent through the network to the destination. If a hacker tries to read this message, he/she receives an unreadable message that cannot be easily converted into the actual message. The unreadable message can be converted to the original message by the receiver at the destination.</p> <p>Caesar Cipher is one of the common encryption techniques. In this technique, each letter of the word is replaced by a letter some fixed number of positions (usually called as key) down the alphabet. For example, if the key is 3, each 'A' will be replaced by 'D' (Letter 'D' is 3 positions down Letter 'A' in the alphabet), each 'B' will be</p>	

	replaced by 'E' and similarly, each 'Z' will be replaced by 'C'. The receiver can identify the original message by using the reverse technique of encryption. This reverse technique is called decryption.	
(i)	.Secure data transmission means a) Data can be accessed by any unauthorized person during transmission. b) Data can not be accessed by any unauthorized person during transmission. c) Transmission of data d) None of the above	1
(ii)	Which of the following techniques can be used for security of data. a) Authentication b) Authorisation c) Encryption d) All of the Above	1
(iii)	Caesar Cipher is a) used for conversion of the actual message into an encrypted message b) an encryption technique c) both (a) and (b) d) None of the above	1
(iv)	Person 'X' has received an encrypted message and wants to convert this message into the actual message (message before encryption). The technique he should use is called a) Conversion b) Encryption c) Decryption d) None of the above	1

(v)	A sender wants to send a message having the text as 'COMPUTER' to a receiver using 4 as the key. What will be the encrypted message? a) GSQTZXIV b) GSQTYXIV c) GSXTYXIV d) GSQSYXIV	1
(vi)	An encryption algorithm is used to transform a readable message into: a) Text message b) Simple message c) Converted message d) Encrypted message	1
(vii)	In Ceaser Cipher, for which of the following values of key, the encrypted message will be the same as original message. a) 0 b) 26 c) both (a) and (b) d) None of the above	1
Part –B All questions are compulsory. In case of internal choices, attempt any one.		
16	Sarvesh, a student of Class X, is not able to understand the difference between web client and web-server. Help him in understanding the same by explaining their role and giving suitable example of each.	2
17	Write the full form of Cc and Bcc (used in emailcommunication). Explain the difference between	2

	them.	
18	What is the use of <sub> and <sup>tag. Explain with suitable example.	2
19	Sunil wants to insert an image 'elearning.jpg' into a webpage. Write the name and the syntax of the HTML Tag she should use. The alternate text for the image should be 'E-learning Image'	2
20	Define the following (i) Intellectual Property Rights (ii) Plagiarism OR What is e-commerce? Write any two preventive measures to be taken for secure online transaction.	2
21	Shalini, a web designer, wants to create a webpage to display a list where each item is listed by a number. Which type of list she should use? Explain the role of start and type attributes.	3
22	What are the roles of Rowspan and Colspan attribute? Explain with suitable HTML example.	3
23	Saroj, a student of Class X, wants to represent a table in webpage but she is unaware about the table tag. Explain her the role of <th>, <tr> and <td> tag. Write HTML code of a table and show the use of <th>, <tr> and <td> tag.	3
24	What is the digital divide? Write any two reasons for digital divide in India.	3
25	Define Internet and write its two uses in our daily life. How is it different from the World Wide Web (www). OR What is e-learning? Explain any two merits of e-learning.	3

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Our Country : India



India is spread over a large geographical area. In terms of area, it is the 7th largest country while in terms of population, it is the 2nd largest country in the world. Some facts about India are as follows

- Area : Approx 3.28 million sq. km
- North to South extension : Approx 3,200 km
- East to West extension : Approx 2900 km

5

Write the HTML code to design the above-shown web page considering the specifications as given below :

- Background color of the page should be yellow.
- Heading 'Our Country : India' should be the first level of heading
- The image named 'India.jpg' should be placed at the center.
- Formatting style for the paragraph
 - Font Size: 5
 - Font Name: Times New Roman
 - Color: Red
- Superscript and subscript tags should be used wherever required.
- Facts (as shown in the above web-page) should be written with the help of the unordered list.

OR

Answer the following

a. What is a Hypertext link?

b. Give the name and the syntax of the HTML Tag which is used for creating a Hypertext Link.

	<p>c. Neha wants to display a 'Click Here' message on her webpage which, when clicked, opens a new webpage 'Chapter2.html'. Write the syntax of the HTML command she should use.</p> <p>d. On the same webpage, Neha whose email is neha@xyz.com, wants to display a 'Contact us' message which when clicked open the email program and allows the user to send a mail to Neha. Write the syntax of the HTML command she should use.</p> <p>e. Explain the use of the target attribute in the Hypertext Link Tag.</p>	
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SAMPLE QUESTION PAPER (2020-21)
ENGLISH – Language and Literature
CLASS-X (Rationalised syllabus)

Time allowed: 3 Hrs.

Maximum Marks : 80

General Instructions:

1. This paper is divided into two parts: A and B. All questions are compulsory.
2. Separate instructions are given with each section and question, wherever necessary.
Read these instructions very carefully and follow them.
3. Do not exceed the prescribed word limit while answering the questions.

Part A (40 Marks)

READING (20 marks)

1. Read the passage given below.

The choices we make on a daily basis—wearing a seatbelt, lifting heavy objects correctly or purposely staying out of any dangerous situation—can either ensure our safety or bring about potentially harmful circumstances.

You and I need to make a decision that we are going to get our lives in order. Exercising self-control, self-discipline and establishing boundaries and borders in our lives are some of the most important things we can do. A life without discipline is one that's filled with carelessness.

We can think it's kind of exciting to live life on the edge. We like the image of "Yeah! That's me! Living on the edge! Woo-hoo!" It's become a popular way to look at life. But if you see, even highways have lines, which provide margins for our safety while we're driving. If we go over one side, we'll go into the ditch. If we cross over the line in the middle, we could get killed. And we like those lines because they help to keep us safe. Sometimes we don't even realize how lines help to keep us safe.

I'm not proud of this, but for the first 20 years of my life at work, I ignored my limits. I felt horrible, physically, most of the time. I used to tell myself "I know I have limits and that I've reached them, but I'm going to ignore them and see if or how long I can get by with it." I ran to doctors, trying to make myself feel better through pills, vitamins, natural stuff and anything I could get my hands on. Some of the doctors would tell me, "It's just stress." That just made me mad. I thought stress meant you don't like what you do or can't handle life, and I love what I do. But I kept pushing myself, traveling, doing speaking engagements and so on— simply exhausting myself.

Finally, I understood I was living an unsustainable life and needed to make some changes in my outlook and lifestyle.

You and I don't have to be like everyone else or keep up with anyone else. Each of us needs to be exactly the way we are, and we don't have to apologize for it. We're not all alike and we need to find a comfort zone in which we can enjoy our lives instead of making ourselves sick with an overload of stress and pressure.

On the basis of your understanding of the passage, answer ANY TEN questions from the twelve that follow. (1x10=10)

- i. The reason why living on the edge has become popular, is because of the
- a) constant need for something different.
 - b) population being much younger.
 - c) exhausting effort to make changes.
 - d) strong tendency to stay within our limits.
- ii. Choose the option that best captures the central idea of the passage from the given quotes.

It's all about quality of life and finding a happy balance between work and friends. --Philip Green (1)	To go beyond is as wrong as to fall short. --Confucius (2)	Life is like riding a bicycle. To keep your balance you must keep moving. --Albert Einstein (3)	Balance is not something you find, it's something you create. --Jana Kingsford (4)
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- a) Option (1)
- b) Option (2)
- c) Option (3)
- d) Option (4)

iii. Which of the characteristics are apt about the writer in the following context: "I know I have limits and that I've reached them, but I'm going to ignore them and see if or how long I can get by with it." ?

- 1. negligent
- 2. indecisive
- 3. spontaneous
- 4. reckless
- 5. purposeless
- 6. patient

- a) 2 and 5
- b) 3 and 6
- c) 1 and 4
- d) 2 and 3

- iv.** Which of the following will be the most appropriate title for the passage?
- a) Much too soon
 - b) Enough is enough
 - c) How much is too much?
 - d) Have enough to do?
- v.** The phrase “potentially harmful circumstances” refers to circumstances that can
- (a) certainly be dangerous.
 - (b) be fairly dangerous.
 - (c) be possibly dangerous.
 - (d) seldom be dangerous.
- vi.** Select the option that makes the correct use of “unsustainable”, as used in the passage, to fill in the blank space.
- a) In the long run, the _____ officials followed emergency procedures.
 - b) Emergency procedures were _____ by the officials.
 - c) Officials reported an _____ set of events during the emergency.
 - d) Officials admit that the emergency system is _____ in the longer run.
- vii.** The author attempts to _____ the readers through this write-up.
- a) rebuke
 - b) question
 - c) offer aid to
 - d) offer advice to
- viii.** The author uses colloquial words such as “yeah” and “Woo-hoo!”. Which of the following is NOT a colloquial word?
- a) hooked
 - b) guy
 - c) stuff
 - d) stress
- ix.** What does the author mean when he says, “to get our lives in order”?
- a) To resume our lives.
 - b) To organize our lives.
 - c) To rebuild our lives.
 - d) To control our lives.
- x.** Choose the option that correctly states the two meanings of ‘outlook’, as used in the passage.
- 1. A person’s evaluation of life
 - 2. A person’s experiences in life

- 3. A person's point of view towards life
- 4. A person's regrets in life
- 5. A person's general attitude to life

- a) (1) and (4)
- b) (2) and (3)
- c) (3) and (5)
- d) (4) and (5)

xi. The author explains the importance of discipline and boundaries in our lives using the example of

- a) road accidents.
- b) traffic rules.
- c) lines on the highway.
- d) safe driving.

xii. What is the message conveyed in the last paragraph of the passage?

- a) Love what you do.
- b) Love yourself to love others.
- c) Be the best version of yourself.
- d) Be yourself.

2. Read the passage given below.

The UN's 2017 International Year tells that sustainable tourism is an important tool for development, most importantly in poor communities and countries. Today sustainability – environmental, social, and economic – is increasingly recognised as the benchmark for all tourism business. As noted by the UN World Tourism Organisation, 57% of international tourist arrivals will be in emerging economies, by 2030. The various 'Tourism Terms' are defined as follows:

CATEGORY	DEFINITION
Ecotourism	Responsible travel to natural areas that conserves the environment, socially and economically sustains the well-being of local people, and creates knowledge and understanding through interpretation and education of all involved (including staff, travelers, and community residents). ⁴
Ethical Tourism	Tourism in a destination where ethical issues are the key driver, e.g. social injustice, human rights, animal welfare, or the environment. ⁵
Geotourism	Tourism that sustains or enhances the geographical character of a place – its environment, heritage, aesthetics, culture, and well-being of its residents. ⁶
Pro-Poor Tourism	Tourism that results in increased net benefit for the poor people in a destination. ⁷
Responsible Tourism	Tourism that maximizes the benefits to local communities, minimizes negative social or environmental impacts, and helps local people conserve fragile cultures and habitats or species. ⁸
Sustainable Tourism	Tourism that leads to the management of all resources in such a way that economic, social, and aesthetic needs can be fulfilled while maintaining cultural integrity, essential ecological processes, biological diversity, and life-support systems. ⁹

Based on data collected by a survey by Travel Bureau, the following market profile of an ecotourist was constructed: -

Age: 35 - 54 years old, although age varied with activity and other factors such as cost.

Gender: 50% female and 50% male, although clear differences based on activity were found.

Education: 82% were college graduates, a shift in interest in ecotourism from those who have high levels of education to those with less education was also found, indicating an expansion into mainstream markets.

Household composition: No major differences were found between general tourists and experienced ecotourists**

Party composition: A majority (60%) of experienced ecotourism respondents stated they prefer to travel as a couple, with only 15% stating they preferred to travel with their families, and 13% preferring to travel alone. (** experienced ecotourists = Tourists that had been on at least one "ecotourism" oriented trip.)

Trip duration: The largest group of experienced ecotourists- (50%) preferred trips lasting 8-14 days.

Expenditure: Experienced ecotourists were willing to spend more than general tourists, the largest group (26%) .

Important elements of trip: Experienced ecotourists top three responses were: (a) wilderness setting, (b) wildlife viewing, (c) hiking/trekking.

Motivations for taking next trip: Experienced ecotourists top two responses were (a) enjoy scenery/nature, (b) new experiences/places.

On the basis of your understanding of the passage attempt ANY TEN questions from the twelve that follow. (1x10=10)

- i. In the line ".....recognised as the benchmark", the word "benchmark" DOES NOT refer to
 - a) a basis for something.
 - b) the criterion required.
 - c) the ability to launch something new.
 - d) a standard point of reference.

- ii. The World Tourism Organisation of the UN, in an observation, shared that
 - a) emerging economies of the world will gain 57% of their annual profits from International tourists.
 - b) countries with upcoming economies shall see maximum tourist footfall from all over the world in the next decade.
 - c) a large number of international tourists in 2030 will be from developing countries.

d) barely any tourist in the next decade shall travel from an economically strong nation to a weak one.

iii. One of the elements that is important to ecotourists on trip is

- a) wild and untouched surroundings.
- b) cultural exchange.
- c) car and bus rides.
- d) fully furnished flats.

iv. Choose the option that lists the correct answers for the following:

1. Asha Mathew, an NRI, loves animals and wishes to travel to places that safeguard their rights and inculcate awareness of their rights. What kind of tourist is she?
 2. Gurdeep Singh from UK is an environmental scientist and has always chosen to travel to places that are examples of a symbiotic relationship between man and nature. What kind of tourist is he?
- a) (1) is an ecotourist and (2) is a geotourist
 - b) (1) is an ethical tourist and (2) is a geotourist
 - c) (1) is a sustainable tourist and (2) is a pro-poor tourist
 - d) (1) is a geotourist and (2) is a responsible tourist

v. Based on your understanding of the passage, choose the option that lists the inherent qualities of geotourism.

1. showcases adventure sports

2. promotes landscape appreciations

3. promises luxurious travel

4. includes being environmentally responsible

5. believes in commercializing forests

6. initiates donations for the underprivileged

- a) 1 & 2
- b) 5 & 6
- c) 2 & 4
- d) 3 & 5

vi. In the market profile of an ecotourist, the information on gender indicates that

- a) female ecotourists were more than the male ecotourists.
- b) the activity preferences were varied in females and males.
- c) the choice of things to do on a trip were quite similar for both the genders.
- d) male ecotourists were frequent travellers.

- vii.** The education aspect in the market profile of the ecotourist revealed that
- a) mainstream market trends were popular with undergraduates.
 - b) ecotourists were only those who had basic education.
 - c) mainstream markets were popular tourist destinations for educated ecotourists.
 - d) ecotourism was no more limited to the small group of highly educated travellers.
- viii.** According to the survey conducted by the Travel Bureau, the total percentage of experienced ecotourists who DID NOT prefer to travel alone was
- a) 60%.
 - b) 75%.
 - c) 15%.
 - d) 13%.
- ix.** According to the survey, one of the most powerful driving forces leading experienced ecotourism to invest in new trips was
- a) setting up work stations in new places.
 - b) the chance to go camping in the wild.
 - c) competing with other ecotourists as frequent travellers.
 - d) the opportunity to travel to new places.
- x.** **Choose the option that lists statement that is NOT TRUE.**
- a) Economically backward countries will benefit from sustainable tourism.
 - b) The tourism business currently recognizes sustainability as an important factor.
 - c) Emerging economies will receive negligible international tourists in the near future.
 - d) The sustainability factor in tourism is a significant means for development.
- xi.** **The survey clearly showed that the age range of ecotourists:**
- a) remained the same for the choice of tourist- attractions to visit.
 - b) changed with the monetary requirements for the trip.
 - c) fluctuated due to male-female ratio.
 - d) was constant across various features of the trip.

xii. Who isn't an experienced ecotourist?

- a) The person who has travelled as an ecotourist once earlier.
- b) The person who is yet to travel even once as an ecotourist.
- c) The person who is a regular ecotourism enthusiast and traveller.
- d) The person who is not regularly travelling on ecotourism trips.

LITERATURE

(10 marks)

3. Read the extracts given below and attempt ANY ONE, by answering the questions that follow. (5x1)

(A)

Suddenly she was startled by a voice. "Listen, child," said the voice, "you shouldn't stand like that. Sit down."

Sitting down, she looked to see who had spoken. It was an elderly man who had honestly been concerned for her, but she was annoyed by his attention.

"There's nobody here who's a child," she said haughtily. "I've paid my thirty paise like everyone else."

The conductor chimed in. "Oh, sir, but this is a very grown-up madam. Do you think a mere girl could pay her own fare and travel to the city all alone?"

Valli shot an angry glance at the conductor and said, "I am not a madam. Please remember that. And you've not yet given me my ticket."

"I'll remember," the conductor said, mimicking her tone. Everyone laughed, and gradually Valli too joined in the laughter.

i. How did Valli feel when the elderly man expressed concern that she was standing?

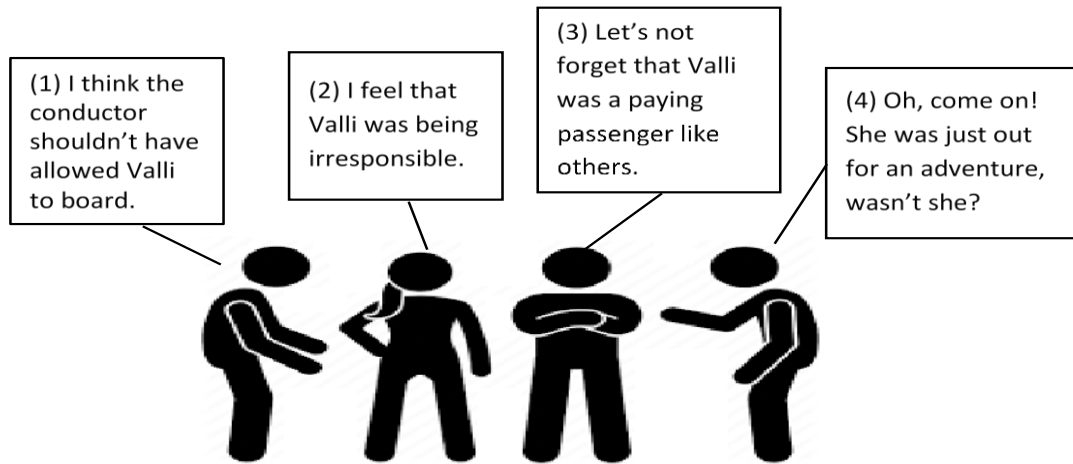
- a) Rather shocked
- b) Somewhat happy
- c) Fairly displeased
- d) Quite embarrassed

ii. Choose the option that lists the set of statements that are NOT TRUE according to the given extract.

1. Valli was travelling without a guardian.
2. The conductor was bullying Valli.
3. Valli was nervous in her interactions.
4. Valli was a child passenger.
5. Valli followed the elderly man's advice.
6. Valli's response to the elderly man was respectful.
7. It took Valli some time to participate in the jocular conversations.

- a) 2, 3, 4
- b) 5, 6, 7
- c) 3, 5, 7
- d) 2, 3, 6

iii. Pick the option that correctly classifies fact/s(F) and opinion/s (O) of the students below.



- a) F - 1,2 and O - 3,4
- b) F - 2,3,4 and O - 1
- c) F - 2,4 and O - 1,3
- d) F - 3 and O - 1,2,4

iv. Which word does 'chimed in' NOT correspond to?

- a) Intervened
- b) Interrupted
- c) Intersected
- d) Interjected

v. Choose the characteristic displayed by the conductor when he addressed Valli and declared that she couldn't be 'a mere girl'.

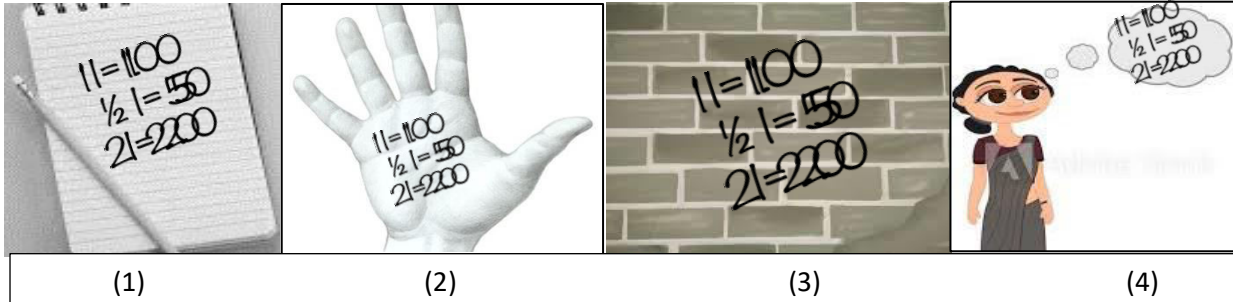
- a) encouragement
- b) indulgence
- c) embarrassment
- d) authority

OR

The baker or bread-seller of those days had a peculiar dress known as the *kabai*. It was a single piece long frock reaching down to the knees. In our childhood we saw bakers wearing shirt and trousers which were shorter than full-length ones and longer than half pants. Even today, anyone who wears a half pant which reaches just below the knees invites the comment that he is dressed like a *pader*!

(B)

- i. Choose the answer that lists the correct option about the recording of the baker's monthly accounts.



- a) Option (1)
b) Option (2)
c) Option (3)
d) Option (4)

Question in lieu of Q 3B (i) for Visually Impaired Candidates.

The monthly accounts were:

- a) written on the dress
b) remembered by the baker
c) written on the wall
d) calculated on the palm

- ii. When the writer says, '*Baking was indeed a profitable profession in the old days.*', he means that

- a) baking isn't as popular in Goa currently.
b) bakers have chosen to adopt other professions.
c) baking, as a job, isn't as gainful as it used to be.
d) bakers' goods were of a better quality in earlier times.

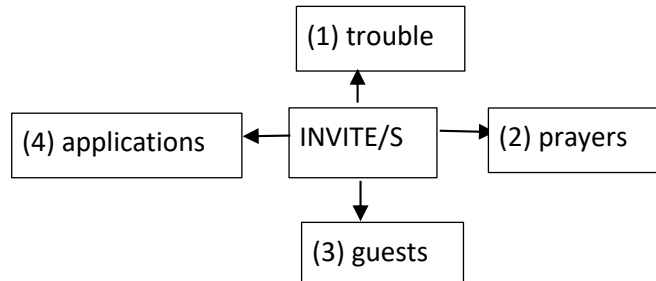
- iii. The statement that is TRUE about payment collection, according to the passage is:

- a) The baker received payment on a daily basis.
b) The baker was paid for his services at the end of the month.
c) The baker insisted that customers pay before the month-end.
d) The baker chose to receive payment any day of the month.

- iv. The *kabai* was a 'peculiar' outfit as it was

- a) a tight-fitting apparel.
b) too colourful.
c) made of unsuitable materials.
d) a dress-like attire.

- v. The extract uses the phrase, '*invites (the) comments*'. Which of the following expressions is incorrect with respect to the word 'invites' ?



- a) Option (1)
- b) Option (2)
- c) Option (3)
- d) Option (4)

4. Read the extracts given below and attempt ANY ONE, by answering the questions that follow. (5x1)

(A)

But he's locked in a concrete cell,
His strength behind bars,
Stalking the length of his cage,
Ignoring visitors.

He hears the last voice at night,
The patrolling cars,
And stares with his brilliant eyes
At the brilliant stars

- i. The fact that the tiger is 'stalking the length of his cage' tells us that he is
 - a) restless.
 - b) reckless.
 - c) resilient.
 - d) reverent.

- ii. What is the rhyme scheme of the given stanzas?
 - a) abcb; abcb
 - b) abcb; abcd
 - c) abcd; abcd
 - d) abcd; abcb

- iii.** These stanzas bring out the contrast between
- a) zoos and cities.
 - b) strength and weakness.
 - c) freedom and captivity.
 - d) visitors and patrolling cars.
- iv.** What is the caged tiger NOT likely to say to the visitors?
- a) "Stop staring".
 - b) "Set me free".
 - c) "Join me".
 - d) "Go away".
- v.** The tiger's 'brilliant eyes' reveal that he
- a) hopes to be free and in the wild, someday.
 - b) is looked after well and is nourished and healthy.
 - c) enjoys staring at the bright stars each night.
 - d) is well-rested and hence, wide-awake.

OR

(B)

I saw it go
Merrily bouncing, down the street, and then
Merrily over — there it is in the water!
No use to say 'O there are other balls':
An ultimate shaking grief fixes the boy
As he stands rigid, trembling, staring down
All his young days into the harbour where
His ball went

- i.** The poet uses the ball as a symbol of the boy's
- a) sense of adventure.
 - b) carefree childhood days.
 - c) ability to bounce back.
 - d) extended family.
- ii.** The poet feels that there is no point consoling the boy as
- a) it would give him false hope.
 - b) he might demand for a new ball.
 - c) it might distress him further.
 - d) whatever he has lost is irretrievable.

- iii. The word 'harbour' DOES NOT have a meaning similar to
- a) port.
 - b) pier.
 - c) dock.
 - d) cargo.
- iv. *'Merrily over — there it is in the water!'* The dash here is meant to convey
- a) some familiar experience.
 - b) a feeling of excitement.
 - c) a sense of unexpected interruption.
 - d) some thoughtful moments.
- v. The word that DOES NOT indicate a physical manifestation of sorrow in the boy, is
- a) worthless.
 - b) shaking.
 - c) trembling.
 - d) rigid.

GRAMMAR

(10 marks)

5. Choose the correct options to fill in the blanks to complete the note about the Wangala Festival of Meghalaya. (3x1)

The Wangala **-(i)-** festival for the Garo in Meghalaya, Assam and Nagaland. It is a post-harvest festival **-(ii)-** the end of the agricultural year. It is popularly known as 'The Hundred Drums' festival. During the signature dance, the leading warrior **-(iii)-** with synchronised dance steps and specific hand-head movements.

- (i)**
- a) is important
 - b) are an important
 - c) was the important
 - d) is an important
- (ii)**
- a) being celebrated for marking
 - b) celebrated to mark
 - c) celebrated to marking
 - d) being celebrated for mark
- (iii)**
- a) leads the youngsters
 - b) is lead the youngsters

- c) was leading the youngsters
- d) had leads the youngsters

6. Choose the correct options to fill in the blanks to complete Venu's narration. (3x1)



I saw Supanddi standing in the field. When I **-(i)-** doing there, he **-(ii)-** he was trying to win a Nobel prize. I was confused and enquired how standing in the rice field would help him do so. He stumped me by saying that he **-(iii)-** won Nobel prizes had all been out-standing in their fields!

Text to be used for Visually Impaired Candidates.

Venu: Suppandi, what are you doing standing all alone here?
 Suppandi: Uncle, I'm trying to win a Nobel prize.
 Venu: How will standing in my rice field help you win a Nobel?
 Suppandi: because, that's how it's won. I've heard that the people who have won Nobel prizes were all out standing in various fields.
 Venu: Oh!

- (i)** a) exclaimed what he was
- b) told him what he was
- c) asked him what he was
- d) says to him about what

- (ii)** a) ordered that
- b) refused that
- c) questioned that
- d) replied that

- (iii)** a) has heard that people who has
- b) was hearing that people who were
- c) had heard that people who had
- d) did hear that people who had

7. Fill in the blanks by choosing the correct options for ANY FOUR of the six sentences given below. (4x1)

(i) You consult the Thesaurus if you need groups of synonyms for those words.

- a) had to
- b) need to
- c) used to
- d) might

(ii) Everybody keen to participate in the upcoming *nukkad natak*.

- a) are
- b) has
- c) is
- d) were

(iii) The good news is that..... volunteers dropped out this month than the last two.

- a) fewer
- b) less
- c) few
- d) a little

(iv) It was historic day for the organisation when honour was bestowed upon its employees.

- a) a; an
- b) an; the
- c) the; a
- d) an; a

(v) At this time tomorrow we our project details to ma'am.

- a) are presenting
- b) shall be presenting
- c) have been presenting
- d) will have presenting

(vi) The Komodo dragon follow its prey till it will eventually dies due to its venomous bite.

- a) must
- b) will
- c) could
- d) may

Section B

WRITING

(2x5= 10 marks)

8. Attempt **ANY ONE** of the following in 100-120 words. (5 marks)

(A) You are Tabassum/Tarun, a resident of Satya Nagar Colony, Bhubaneshwar, Orissa. You have noticed that some residents of your colony are repeatedly flouting quarantine rules laid out during the outbreak of the COVID-19 pandemic.

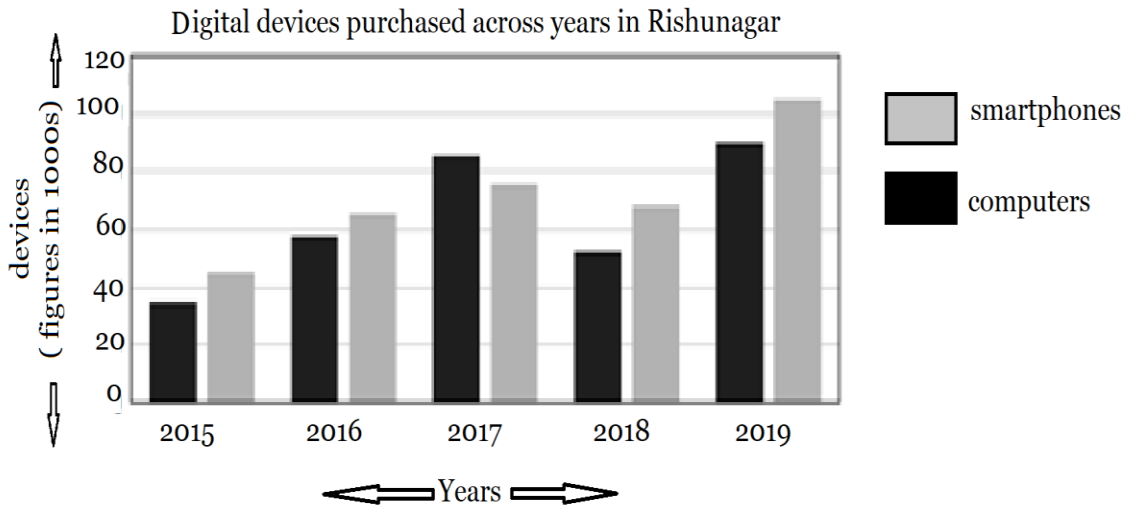
Write a letter to the SHO of the local Police Station, drawing attention towards the same. Explain how such acts impact the health of the community and request immediate intervention and strict action.

OR

(B) You are Vaijanthi/Vijay from Prakasham Nagar, Secunderabad, Andhra Pradesh. Write a letter to Book Haven Store, requesting home delivery of the books, stationery and art materials you had ordered telephonically. Share the reason for being unable to pick up the goods in person. Confirm your address details and a convenient time slot.

9. Attempt **ANY ONE** of the following in 100-120 words. (5 marks)

(A) The chart below displays data about the number of digital devices purchased in Rishunagar across the years 2015-2019. Write a paragraph analyzing the given data.



For Visually Impaired Candidates in lieu of Q9 A

The table below displays the responses of 85 college athlete-respondents, aged 16-24, about sources of nutrition information. Write a paragraph analyzing the given data.

Variable	Group	Frequency	Percentage
gender	Male	39	45.88
	Female	46	54.12
Year in College	1st year	9	10.59
	2nd year	10	11.76
	3rd year	57	67.06
	4th year	9	10.59
Source of Nutrition Info	Coach	18	21.18
	Magazine	4	4.71
	TV	11	12.94
	Athletic Trainer	15	17.65
	Internet	37	43.53

OR

(B) Read the following excerpt from an article that appeared in the magazine section of a local daily:

The ban on single-use plastic is impractical. The purpose of articles like bags and packaging is ultimately to make human life easier. Plastic articles do this well, so they shouldn't be banned.

Write a paragraph to analyse the given argument.

You could think about what alternative explanations might weaken the given conclusion and include rationale / evidence that would strengthen / counter the given argument.

LITERATURE

(30 marks)

10. Answer ANY TWO questions in 20-30 words each, from (A) and (B) respectively.

(2x4=8)

(A) (any two)

(2x2=4)

- i. How did Peggy justify her cruel behavior towards Wanda?
- ii. Describe how Custard's reaction was different from that of others, on seeing the pirate?
- iii. Who, according to Nelson Mandela, is a courageous man?

(B) (any two)

(2x2=4)

- i. Why did Oliver Lutkin's mother laugh as she chased him and Bill away?
- ii. Why was it important for Mrs. Pumphrey to be a little cruel in order to be kind towards Tricki?
- iii. List any one characteristic of Bholi's teacher with reference to her first day at school. Give a reason for your answer.

11. Answer ANY TWO questions in 40-50 words each, from (A) and (B) respectively.

(3x4=12)

(A) (any two)

(3x2=6)

- i. Annie writes that it was fortunate that Mr. Keesing took the joke the right way. Why does she feel so?
- ii. The use of symbolism in the poem 'Fire and Ice' conveys the poet's message effectively. Expand with reference to the poem.
- iii. Justify the poet's allusion to Rapunzel in 'Amanda'.

(B) (any two)

(3x2=6)

- i. Griffin's brilliance as a man of science fades before his darker traits. Comment.
- ii. Why do you think Mr. Weiherer was pleased that Richard Ebright not only put in the nightly research hours towards butterflies, but also his other interests?
- iii. What madame Forestier exclaim in astonishment, when she saw Matilda, years after the Minister's ball?

12. Answer ANY ONE the following in 100-120 words.

(5x1)

(A) Natalya and Ivan argued about the ownership of Oxen Meadows and the superiority of their respective dogs in the play, *The Proposal*.

Imagine yourself as the playwright of the play. Based on your understanding of the personality traits of Natalya and Ivan, write a dialogue based on an imaginary event, showcasing another argument between them.

OR

(B) Read the extracts given below and comment on the difference in the nature of help both the characters, of these two stories, received.

- a) Suddenly I came out of the clouds and saw two straight lines of lights in front of me. It was a runway! An airport! I was safe! I turned to look for my friend in the black aeroplane but the sky was empty. [The Black Aeroplane]
- b) All through the night Lencho thought only of his one hope: the help of God...The following Sunday, at daybreak he began to write a letter...It was nothing less than a letter to God...The following Sunday Lencho came a bit earlier than usual to ask if there was a letter for him.... Lencho showed not the slightest surprise on seeing the money, such was his confidence. [A Letter to God]

13. Answer ANY ONE of the following in 100-120 words.

(5x1)

(A) Hari Singh says- "*He knew it but neither his lips nor his eyes showed anything.*"

Anil successfully addressed the situation by not addressing it at all. Elaborate based on your reading of *The Thief's Story*.

OR

(B) Read the following quote by an American author, E. E. Hale.

"I am only one but, I am one. I cannot do everything but I can do something. And I will not let what I cannot do interfere with what I do."

Bholi's evolution from a 'dumb cow' to a 'masterpiece' supports the given quote. Justify.

प्रतिदर्श प्रश्न पत्र 2020- 21 विषय- हिंदी 'अ' (कोड-002) कक्षा- 10

निर्धारित समय- 3 घंटे

अधिकतम अंक – 80

<p>निम्नलिखित निर्देशों का पालन कीजिए: इस प्रश्न-पत्र में दो खंड हैं- खंड 'अ' और 'ब'। खंड 'अ' में कुल 9 वस्तुपरक प्रश्न पूछे गए हैं। सभी प्रश्नों में उपप्रश्न दिये गये हैं। खंड 'ब' में कुल 8 वर्णात्मक प्रश्न पूछे गए हैं। प्रश्नों में आंतरिक विकल्प दिये गए हैं दिये गए निर्देशों का पालन करते हुए प्रश्नों के उत्तर दीजिये।</p>		
खंड – अ वस्तुपरक-प्रश्न		
अपठित गद्यांश		(10)
प्रश्न 1.	नीचे 2 गद्यांश दिए गए हैं। किसी 1 गद्यांश को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए:-	5x1=5
गद्यांश-I		
<p>यदि आप इस गद्यांश का चयन करते हैं तो कृपया उत्तर-पुस्तिका में लिखें कि आप प्रश्न संख्या 1 में दिए गए गद्यांश-I पर आधारित प्रश्नों के उत्तर लिख रहे हैं।</p>		
<p>उन्नीसवीं शताब्दी से पहले, मानव और पशु दोनों की आबादी भोजन की उपलब्धता तथा प्राकृतिक विपदाओं आदि के कारण सीमित रहती थी। कालांतर में जब औद्योगिक क्रांति के कारण मानव सभ्यता की समृद्धि में भारी वृद्धि हुई तब उसके परिणामस्वरूप कई पश्चिमी देश ऐसी बाधाओं से लगभग अनिवार्य रूप से मुक्त हो गए। इससे वैज्ञानिकों ने अंदाज़ा लगाया कि अब मानव जनसंख्या विस्फोटक रूप से बढ़ सकती है। परन्तु इन देशों में परिवारों का औसत आकार घटने लगा था और जल्दी ही समृद्धि और प्रजनन के बीच एक उलटा संबंध प्रकाश में आ गया था।</p> <p>जीवविज्ञानियों ने मानव समाज की तुलना जानवरों की दुनिया से कर इस सम्बन्ध को समझाने की कोशिश की और कहा कि ऐसे जानवर जिनके अधिक बच्चे होते हैं, वे अधिकतर प्रतिकूल वातावरण में रहते हैं और ये वातावरण प्रायः उनके लिये प्राकृतिक खतरों से भरे रहते हैं। चूंकि इनकी संतानों के जीवित रहने की संभावना कम होती है, इसलिए कई संतानें पैदा करने से यह संभावना बढ़ जाती है कि उनमें से कम से कम एक या दो जीवित रहेंगी। इसके विपरीत, जिन जानवरों के बच्चे कम होते हैं, वे स्थिर और अनुकूल वातावरण में रहते हैं। ठीक इसी प्रकार यदि समृद्ध वातावरण में रहने वाले लोग केवल कुछ ही बच्चे पैदा करते हैं, तो उनके ये कम बच्चे उन बच्चों को पछाड़ देंगे जिनके परिवार इतने समृद्ध नहीं थे तथा इनकी आपस की प्रतिस्पर्धा भी कम होगी।</p> <p>इस सिद्धांत के आलोचकों का तर्क है कि पशु और मानव व्यवहार की तुलना नहीं की जा सकती है। वे इसके बजाए यह तर्क देते हैं कि सामाजिक दृष्टिकोण में परिवर्तन इस घटना को समझाने के लिए पर्याप्त है। श्रम-आश्रित परिवारों में बच्चों की बड़ी संख्या एक वरदान के समान होती है। वे जल्दी काम कर परिवार की आय बढ़ाते हैं। जैसे-जैसे समाज समृद्ध होता जाता है, वैसे-वैसे बच्चे जीवन के लगभग पहले 25-30 सालों तक शिक्षा ग्रहण करते हैं। जीवन के प्रारंभिक वर्षों में उर्वरता अधिक होती है तथा देर से विवाह के कारण संतानों की संख्या कम हो जाने की संभावना बनी रहती है।</p>		
<p>निम्नलिखित में से निर्देशानुसार सबसे उचित विकल्पों का चयन कीजिए: -</p>		
(1)	<p>निम्नलिखित में से कौन-सा ऊपर लिखित पाठ्यांश का प्राथमिक उद्देश्य है?</p> <p>I. मानव परिवारों के आकार के संबंध में दिए उस स्पष्टीकरण की आलोचना जो पूरी तरह से जानवरों की दुनिया से ली गई टिप्पणियों पर आधारित है।</p> <p>II. औद्योगिक क्रांति के बाद अपेक्षित जनसंख्या विस्फोट न होने के कारणों की विवेचना।</p>	1

	<p>III. औद्योगिक क्रांति से पहले और बाद में पर्यावरणीय प्रतिबंधों और सामाजिक दृष्टिकोणों से परिवार का आकार कैसे प्रभावित हुआ, का अन्तर्सम्बन्ध दर्शाना।</p> <p>IV. परिवार का आकार बढ़ी हुई समृद्धि के साथ घटता है इस तथ्य को समझने के लिये दो वैकल्पिक सिद्धांत प्रस्तुत करना।</p>	
(2)	<p>पाठ्यांश के अनुसार, निम्नलिखित में से कौन-सा जनसंख्या विस्फोट के विषय में सत्य है?</p> <p>I. पश्चिमी देशों में यह इसलिये नहीं हुआ क्योंकि औद्योगीकरण से प्राप्त समृद्धि ने परिवारों को बच्चों की शिक्षा की विस्तारित अवधि को वहन करने का सामर्थ्य प्रदान किया था।</p> <p>II. यह घटना विश्व के उन क्षेत्रों तक सीमित है, जहाँ औद्योगिक क्रांति नहीं हुई है।</p> <p>III. श्रम आधारित अर्थव्यवस्था में केवल उद्योग के आधार पर ही परिवार का आकार निर्भर रहता है।</p> <p>IV. इसकी भविष्यवाणी पश्चिमी देशों में औद्योगिक क्रांति के समय जीवित कुछ लोगों द्वारा की गई थी।</p>	1
(3)	<p>अंतिम अनुच्छेद निम्नलिखित में से कौन-सा कार्य करता है?</p> <p>I. यह पहले अनुच्छेद में वर्णित घटना के लिए एक वैकल्पिक स्पष्टीकरण प्रस्तुत करता है।</p> <p>II. यह दूसरे अनुच्छेद में प्रस्तुत स्पष्टीकरण की आलोचना करता है।</p> <p>III. यह वर्णन करता है कि समाज के समृद्ध होने के साथ सामाजिक दृष्टिकोण कैसे बदलते हैं।</p> <p>IV. यह दूसरे अनुच्छेद में प्रस्तुत घटना की व्याख्या करता है।</p>	1
(4)	<p>पाठ्यांश में निम्नलिखित में से किसका उल्लेख औद्योगिक देशों में औसत परिवार का आकार हाल ही में गिरने के एक संभावित कारण के रूप में नहीं किया गया है?</p> <p>I. शिक्षा की विस्तारित अवधि।</p> <p>II. पहले की अपेक्षा देरी से विवाह करना।</p> <p>III. बदला हुआ सामाजिक दृष्टिकोण।</p> <p>IV. औद्योगिक अर्थव्यवस्थाओं में मजदूरों की बढ़ती मांग।</p>	1
(5)	<p>पाठ्यांश में दी गई कौन-सी जानकारी बताती है कि निम्नलिखित में से किस जानवर के कई बच्चे होने की संभावना है?</p> <p>I. एक विशाल शाकाहारी जो घास के मैदानों में रहता है और अपनी संतानों की भरसक सुरक्षा करता है।</p> <p>II. एक सर्वभक्षी जिसकी आबादी कई छोटे द्वीपों तक सीमित है और जिसे मानव अतिक्रमण से खतरा है।</p> <p>III. एक मांसाहारी जिसका कोई प्राकृतिक शिकारी नहीं है, लेकिन उसे भोजन की आपूर्ति बनाए रखने के लिए लंबी दूरी तय करनी पड़ती है।</p> <p>IV. एक ऐसा जीव जो मैदानों और झीलों में कई प्राणियों का शिकार बनता है।</p>	1
	अथवा गद्यांश-II	
	<p>यदि आप इस गद्यांश का चयन करते हैं तो कृपया उत्तर-पुस्तिका में लिखें कि आप प्रश्न संख्या 1 में दिए गए गद्यांश-II पर आधारित प्रश्नों के उत्तर लिख रहे हैं।</p>	
	<p>विज्ञान-शिक्षण के पक्षधरों ने कल्पना की थी कि शिक्षा में इसकी शुरुआत पारंपरिकता, कृत्रिमता और पिछड़ेपन को दूर करेगी। यह सोच पुराने समय से चली आ रही- 'तथ्य प्रचुर पाठ्यचर्या' जिसके अंतर्गत- आलोचना, चुनौती, सृजनात्मकता व विवेचनात्मकता का अभाव था, आदि के कारण पैदा हो रही थी। मानवतावादियों ने सोचा था कि वैज्ञानिक-पद्धति मध्यकालीन मतवाद के अंधविश्वासों को जड़ से मिटा देगी। किंतु हमारे शिक्षकों ने रासायनिक प्रतिक्रियाओं की समझ को भी प्रेमचंद की कहानियों की तरह केवल पढ़ा व रटा कर उन्हें नीरस बना दिया।</p> <p>शिक्षा में विज्ञान-शिक्षण सम्मिलित करने के लिए यह तर्क दिया गया था कि इससे बच्चे विज्ञान की खोजों से परिचित हो सकेंगे तथा अपने वास्तविक जीवन में घट रही घटनाओं के बारे में कुछ सीखेंगे। वे वैज्ञानिक विधि का अध्ययन कर तार्किक रूप से कैसे सोचना है, के कौशल में परांगत होंगे। इन उद्देश्यों में से केवल पहले ही में एक</p>	

	<p>सीमित सफलता मिली है। दूसरे व तीसरे में व्यावहारिक रूप से बच्चे कुछ भी नहीं प्राप्त कर पा रहे हैं। अधिकतर बच्चों से भौतिकी और रसायन विज्ञान के तथ्यों के बारे में कुछ जानने की उम्मीद की जा सकती है, लेकिन वे शायद ही जानते हों कि उनका कंप्यूटर अथवा कार का इंजन कैसे कार्य करते हैं अथवा क्यों उनकी माता जी सब्जी पकाने के लिये उसे छोटे टुकड़ों में काटती हैं। जबकि वैज्ञानिक पद्धति में रुचि रखने वाले किसी भी उज्ज्वल लड़के को ये बातें सहज रूप से ही ज्ञात हो जाती हैं।</p> <p>वैज्ञानिक पद्धति की शिक्षा अधिकांश विद्यालयों में भली प्रकार से नहीं दी जा रही है। दरअसल, शिक्षकों ने अपनी सुविधा और परीक्षा केंद्रित सोच के कारण, यह सुनिश्चित कर लिया है कि छात्र वैज्ञानिक पद्धति न सीख कर ठीक इसका उल्टा सीखें, अर्थात् वे जो बताएँ, उस पर आँख मूंद कर विश्वास करें और पूछे जाने पर उसे जस का तस परीक्षा में लिख दें। वैज्ञानिक पद्धति को आत्मसात करने के लिये लंबे व्यक्तिगत अनुभव तथा परिश्रम व धैर्य पर आधारित वैज्ञानिक मूल्यों की आवश्यकता होती है, और जब तक इसे संभव बनाने के लिए शैक्षिक या सामाजिक प्रणालियों को बदल नहीं दिया जाता है, वैज्ञानिक तकनीकों में सक्षम केवल कुछ बच्चे ही सामने आएँगे तथा इन तकनीकों को आगे विकसित करने वालों की संख्या इसका भी अंश मात्र ही होगी।</p>	
	निम्नलिखित में से निर्देशानुसार सबसे उचित विकल्पों का चयन कीजिए:-	
(1)	<p>लेखक का तात्पर्य है कि शिक्षकों ने?</p> <p>I. अपने सीमित ज्ञान के कारण विज्ञान पढ़ाने में रुचि नहीं ली है। II. विज्ञान शिक्षा को लागू करने के प्रयासों को विफल किया है। III. बच्चों को अनुभव आधारित ज्ञान प्राप्त करने के लिये प्रेरित किया है। IV. मानवतावादियों का समर्थन करते हुये कार्य किया है।</p>	1
(2)	<p>स्कूल शिक्षा में विज्ञान शिक्षण के प्रति लेखक का क्या रवैया है?</p> <p>I. तटस्थ II. सकारात्मक III. व्यंग्यात्मक IV. नकारात्मक</p>	1
(3)	<p>उपर्युक्त पाठ्यांश निम्नलिखित में से किस दशक में लिखा गया होगा?</p> <p>I. 1950-60 II. 1970 -80 III. 1980 -90 IV. 2000 -10</p>	1
(4)	<p>लेखक वैज्ञानिक पद्धति को लागू करने में विफलता के लिए निम्नलिखित किस कारक को सबसे अधिक जिम्मेदार ठहराता है?</p> <p>I. शिक्षक II. परीक्षा के तरीके III. प्रत्यक्ष अनुभव की कमी IV. सामाजिक और शिक्षा प्रणाली</p>	1
(5)	<p>यदि लेखक वर्तमान समय में आकर विज्ञान शिक्षण का प्रभाव सुनिश्चित करना चाहे तो निम्नलिखित में से किस प्रश्न के उत्तर में दिलचस्पी लेगा?</p> <p>I. क्या छात्र दुनिया के बारे में अधिक जानते हैं? II. क्या छात्र प्रयोगशालाओं में अधिक समय बिताते हैं? III. क्या छात्र अपने ज्ञान को तार्किक रूप से लागू कर सकते हैं?</p>	1

	IV. क्या पाठ्यपुस्तकों में तथ्याधारित सामग्री बढ़ी है?	
	अपठित पद्यांश	(05)
प्रश्न 2.	नीचे 2 पद्यांश दिए गए हैं। किसी 1 पद्यांश को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए:-	5x1=5
	पद्यांश-I यदि आप इस पद्यांश का चयन करते हैं तो कृपया उत्तर-पुस्तिका में लिखें कि आप प्रश्न संख्या 2 में दिए गए पद्यांश-I पर आधारित प्रश्नों के उत्तर लिख रहे हैं।	
	<p>कोई खंडित, कोई कुंठित, कृश बाहु, पसलियाँ रेखांकित, टहनी सी टाँगें, बढ़ा पेट, टेढ़े मेढ़े, विकलांग घृणित! विज्ञान चिकित्सा से वंचित, ये नहीं धात्रियों से रक्षित, ज्यों स्वास्थ्य सेज हो, ये सुख से लोटते धूल में चिर परिचित! पशुओं सी भीत मूक चितवन, प्राकृतिक स्फूर्ति से प्रेरित मन, तृण तरुओं-से उग-बढ़, झर-गिर, ये ढोते जीवन क्रम के क्षण! कुल मान न करना इन्हें वहन, चेतना ज्ञान से नहीं गहन, जग जीवन धारा में बहते ये मूक, पंगु बालू के कण!</p>	
	निम्नलिखित में से निर्देशानुसार सबसे उचित विकल्पों का चयन कीजिए:-	
(1)	<p>काव्यांश आपके अनुसार किस विषय पर लिखा गया है?</p> <p>I. गाँव के बच्चों में कुपोषण की समस्या। II. गाँव के बच्चों में चेतना ज्ञान का अभाव। III. गाँवों में चिकित्सा सुविधाओं का अभाव। IV. गाँव के बच्चों की दयनीय दशा का वर्णन।</p>	1
(2)	<p>दूसरे पद में कवि कह रहा है कि?</p> <p>I. गाँव में विज्ञान की शिक्षा नहीं दी जा रही है। II. गाँव में शिशु जन्म हेतु पर्याप्त दाइयाँ नहीं हैं। III. गाँव में बच्चे स्वास्थ्य के प्रति सजग रहकर शारीरिक व्यायाम कर रहे हैं। IV. गाँव में बच्चे अपने मित्रों के साथ धूल में कुश्ती जैसे खेल खेल रहे हैं।</p>	1
(3)	<p>गाँव के बच्चों की स्थिति कैसी है?</p> <p>I. कुपोषित, खिन्न तथा अशिक्षित हैं। II. क्षीणकाय, किन्तु कुल के मान का ध्यान करने वाले हैं। III. प्राकृतिक वातावरण में रहते हुए स्फूर्ति से भरे हुए हैं। IV. पशुओं की तरह बलिष्ठ परन्तु असहाय व मूक हैं।</p>	1

(4)	<p>काव्यांश में कवि का रवैया कैसा प्रतीत होता है?</p> <ol style="list-style-type: none"> I. वे बच्चों की दशा के विषय में व्यंग कर मनोरंजन करना चाह रहे हैं। II. वे बच्चों की दशा की ओर लोगों का ध्यान आकर्षित करना चाहते हैं। III. वे तटस्थ रहकर बच्चों की शारीरिक व मानसिक दशा का वर्णन कर रहे हैं। IV. वे बच्चों की शारीरिक व मानसिक दशा से संतुष्ट प्रतीत होते हैं। 	1
(5)	<p>तृण-तरुओं से उग-बढ़, इस पंक्ति का अर्थ है?</p> <ol style="list-style-type: none"> I. घास-फूस की तरह हल्के हैं इसलिए तिनकों की तरह उड़ रहे हैं। II. पौधों तथा घास की तरह बिना कुछ खाये पिए बढ़ रहे हैं। III. घास तथा पौधों की तरह पैदा हो रहे हैं तथा मर रहे हैं। IV. प्राकृतिक वातावरण में घास व पौधों की तरह फल-फूल रहे हैं। 	1
अथवा पद्यांश-II		
यदि आप इस पद्यांश का चयन करते हैं तो कृपया उत्तर-पुस्तिका में लिखें कि आप प्रश्न संख्या 2 में दिए गए पद्यांश-II पर आधारित प्रश्नों के उत्तर लिख रहे हैं।		
<p>टकराएगा नहीं आज उद्धत लहरों से, कौन ज्वार फिर तुझे पार तक पहुँचाएगा? अब तक धरती अचल रही पैरों के नीचे, फूलों की दे ओट सुरभि के घेरे खीचे, पर पहुँचेगा पथी दूसरे तट पर उस दिन, जब चरणों के नीचे सागर लहराएगा। गर्त शिखर बन, उठे लिए भंवरो का मेला, हुए पिघल ज्योतिष्क तिमिर की निश्चल बेला, तू मोती के द्वीप स्वप्न में रहा खोजता, तब तो बहता समय शिला-सा जम जाएगा, धूल पोंछ काँट मत गिन छाले मत सहला मत ठंडे संकल्प आंसुओं से तू बहला, तुझसे हो यदि अग्नि-स्नात यह प्रलय महोत्सव तभी मरण का स्वस्ति-गान जीवन गाएगा टकराएगा नहीं आज उन्मद लहरों से कौन ज्वार फिर तुझे दिवस तक पहुँचाएगा</p>		
निम्नलिखित में से निर्देशानुसार विकल्पों का चयन कीजिए:-		
(1)	<p>दिये काव्यांश का क्या उद्देश्य प्रतीत होता है?</p> <ol style="list-style-type: none"> I. आत्मविश्वास जगाने हेतु द्रष्टांत प्रस्तुति। II. हर हाल में कार्य करने की प्रेरणा। III. जागृति व उत्साहित करने हेतु प्रेरणा। IV. जीवन दर्शन के विषय में प्रोत्साहन। 	1
(2)	<p>तू मोती के द्वीप स्वप्न में रहा खोजता-पंक्ति का भाव है?</p> <ol style="list-style-type: none"> I. मोतियों के समान आंसुओं को स्वप्न में आने वाले सुंदर द्वीपों पर नष्ट नहीं करना चाहिए। II. मोती के द्वीप खोजने के लिए सागर में दूर-दूर जाकर कष्टदायी विचरण करना होगा। III. जीवन संसाधनों के लिए यथार्थ में रहकर प्रयत्न करना होगा। 	1

	IV. यदि ऐसा होगा तो जीवन शिला-सा जम जाएगा।	
(3)	तुझसे हो यदि अग्नि स्नात-पंक्ति का क्या अर्थ है? I. यदि तुम जीवन की कष्टतम परिस्थिति झेल लोगे तो जीवन तुम्हारे बलिदान की प्रशंसा करेगा। II. यदि तुम आग के दरिया में डूबकर जाने को तैयार हो तो जीवन मरण के बंधन से मुक्त हो सकोगे। III. जीवन प्रलय के महोत्सव में आग लगाने वाला ही सफलतम वीर कहलाएगा। IV. यदि तुम जीवन में बलिदान करोगे तो जग सदा तुम्हारे जीवन की सराहना करेगा।	1
(4)	समय को गतिशील करने के लिए क्या आवश्यक है? I. समय का सदुपयोग कर मानव कल्याण में लगे रहना। II. तुच्छ कार्यों में सलंगन न रहकर समय नष्ट होने से बचना। III. अपने हाल की परवाह ना करते हुए सकारात्मक भाव से कार्य करते रहना। IV. 'टाल मटोल-समय का चोर' कथानानुसार स्वस्ति (शुभ) कार्य करने में टाल-मटोल न करना।	1
(5)	काव्यांश के अनुसार 'फूलों की ओट व सुरभि के घेरे'- व्यक्ति के जीवन में क्या कार्य कर सकते हैं? I. वे व्यक्ति के जीवन को अपनी सुगंध से शांत व एकाग्र कर सकते हैं। II. वे अपने औषधीय गुणों से व्यक्ति का जीवन व्याधिमुक्त कर सकते हैं। III. वे उसे लक्ष्य प्राप्ति के मार्ग से विचलित कर सकते हैं। IV. फूल उर्वरता व समृद्धि का प्रतीक हैं। वे जीवन में ईश्वर के प्रति निकटता लाने में सहायक हो सकते हैं।	1
	व्यावहारिक व्याकरण	(16)
प्रश्न 3.	निम्नलिखित 5 से में किन्हीं 4 प्रश्नों के उत्तर दीजिए:-	
(1)	'हर्षिता बहुत विनम्र है और सर्वत्र सम्मान प्राप्त करती है।' -रचना के आधार पर वाक्य-भेद है? I. सरल वाक्य। II. मिश्र वाक्य। III. संयुक्त वाक्य। IV. साधारण वाक्य।	1
(2)	निम्नलिखित में मिश्र वाक्य है? I. मैंने एक वृद्ध की सहायता की। II. जो विद्यार्थी परिश्रमी होता है, वह अवश्य सफल होता है। III. अध्यापिका ने अविनि की प्रशंसा की तथा उसका उत्साह बढ़ाया। IV. नवाब साहब ने संगति के लिए उत्साह नहीं दिखाया।	1
(3)	'प्रयश बाज़ार गया। वहाँ से सेब लाया।' इस वाक्य का संयुक्त वाक्य में रूपांतरण होगा? I. प्रयश बाज़ार गया और वहाँ से सेब लाया। II. प्रयश सेब लाया जब वह बाज़ार गया। III. प्रयश बाज़ार जाकर सेब लाया। IV. जब प्रयश बाज़ार गया तो वहाँ से सेब लाया।	1
(4)	'जो वीर होते हैं, वे रणभूमि में अपनी वीरता का प्रदर्शन करते हैं।' -रेखांकित उपवाक्य का भेद है? I. संज्ञा आश्रित उपवाक्य। II. सर्वनाम आश्रित उपवाक्य। III. क्रिया विशेषण आश्रित उपवाक्य। IV. विशेषण आश्रित उपवाक्य।	1

(5)	निम्नलिखित में सरल वाक्य है? I. प्रातःकाल हुआ और सूरज की किरणें चमक उठीं। II. जब प्रातःकाल हुआ, सूरज की किरणें चमक उठीं। III. प्रातःकाल होते ही सूरज की किरणें चमक उठीं। IV. जैसे ही प्रातःकाल हुआ सूरज की किरणें चमक उठीं।	1
प्रश्न 4.	निम्नलिखित 5 से में किन्हीं 4 प्रश्नों के उत्तर दीजिए:-	
(1)	इस वाक्य का वाच्य लिखिए – ‘अशोक ने विश्व को शांति का संदेश दिया।’ I. कर्म वाच्य। II. भाव वाच्य। III. कर्तृ वाच्य। IV. करण वाच्य।	1
(2)	‘हम इस खुले मैदान में दौड़ सकते हैं।’- उपर्युक्त वाक्य को भाव वाच्य में बदलिए। I. हम दौड़ सकते हैं, इस खुले मैदान में। II. हम इस खुले मैदान में दौड़ सकेंगे। III. हमसे इस खुले मैदान में दौड़ा जाएगा। IV. हमसे इस खुले मैदान में दौड़ा जा सकता है।	1
(3)	‘सुमन जल्दी नहीं उठती।’- प्रस्तुत वाक्य को भाववाच्य में बदलिए। I. सुमन जल्दी नहीं उठ पाती। II. सुमन जल्दी से नहीं उठ सकेगी। III. सुमन जल्दी नहीं उठ पाएगी। IV. सुमन से जल्दी नहीं उठा जाता।	1
(4)	निम्नलिखित वाक्यों में से कर्तृ वाच्य वाला वाक्य छांटिए- I. अरविंद द्वारा कल पत्र लिखा जाएगा। II. बच्चों द्वारा नमस्कार किया गया। III. सरकार द्वारा लोक कलाकारों का सम्मान किया गया। IV. नेताजी ने देश के लिए अपना सब कुछ त्याग दिया।	1
(5)	निम्नलिखित में से कौन-सा भाव वाच्य का सही विकल्प नहीं है? I. मुझसे अब देखा नहीं जाता। II. आइए चला जाए। III. हमें धोखा दिया जा रहा है। IV. राधा से बोला नहीं जाता।	1
प्रश्न 5.	निम्नलिखित 5 से में किन्हीं 4 प्रश्नों के उत्तर दीजिए:-	
(1)	‘सूरदास ने सूरसागर की रचना की।’- रेखांकित पद का परिचय है? I. जातिवाचक संज्ञा, एकवचन, पुल्लिंग, कर्ता कारक। II. व्यक्तिवाचक संज्ञा, एकवचन, पुल्लिंग, संबंधकारक। III. व्यक्तिवाचक संज्ञा, एकवचन, पुल्लिंग, कर्ता कारक। IV. जातिवाचक संज्ञा, एकवचन, पुल्लिंग, कर्ता कारक।	1
(2)	‘वह नित्य घूमने जाता है।’- रेखांकित पद का परिचय है? I. गुणवाचक विशेषण, एकवचन, पुल्लिंग, ‘घूमने जाता है’ क्रिया की विशेषता।	1

	II. रीतिवाचक क्रिया विशेषण, एकवचन, पुल्लिंग, 'घूमने जाता है' क्रिया की विशेषता। III. अव्यय,स्थानवाचक क्रिया विशेषण, 'घूमने जाता है' क्रिया की विशेषता। IV. अव्यय,कालवाचक क्रिया विशेषण, 'घूमने जाता है' क्रिया की विशेषता।	
(3)	'तालाब में कमल <u>खिलते हैं</u> ?'- रेखांकित पद का परिचय है? I. सकर्मक क्रिया, बहुवचन, पुल्लिंग,वर्तमान काल, कर्तृ वाच्य। II. अकर्मक क्रिया, बहुवचन, पुल्लिंग,वर्तमान काल, कर्तृ वाच्य। III. सकर्मक क्रिया, एकवचन, पुल्लिंग,वर्तमान काल, कर्तृ वाच्य। IV. अकर्मक क्रिया, एकवचन, स्त्रीलिंग, वर्तमान काल, कर्तृ वाच्य।	1
(4)	'रंग-बिरंगे फूल देखकर मन प्रसन्न हो गया।' - रेखांकित पद का परिचय है? I. संख्यावाचक विशेषण, एकवचन, पुल्लिंग, 'फूल विशेष्य का विशेषण। II. गुणवाचक विशेषण, बहुवचन, पुल्लिंग, 'फूल विशेष्य का विशेषण। III. गुणवाचक विशेषण, एकवचन, पुल्लिंग, 'फूल विशेष्य का विशेषण। IV. गुणवाचक विशेषण, एकवचन, स्त्रीलिंग, 'फूल विशेष्य का विशेषण।	1
(5)	'प्रधानाचार्य ने <u>आपको</u> बुलाया है।' - रेखांकित पद का परिचय है? I. मध्यम पुरुषवाचक सर्वनाम, स्त्रीलिंग, बहुवचन, कर्ता कारक। II. निजवाचक सर्वनाम, पुल्लिंग, एकवचन, कर्ता कारक। III. मध्यम पुरुषवाचक सर्वनाम, स्त्रीलिंग/पुल्लिंग, एकवचन, कर्म कारक। IV. उत्तम पुरुषवाचक सर्वनाम, स्त्रीलिंग/पुल्लिंग, एकवचन, कर्म कारक।	1
प्रश्न 6.	निम्नलिखित 5 से में किन्हीं 4 प्रश्नों के उत्तर दीजिए:-	
(1)	भय की अधिकता में किस रस की निष्पत्ति होती है? I. वीर रस। II. करुण रस। III. भयानक रस। IV. रौद्र रस।	1
(2)	'निर्वेद' किस रस का स्थायी भाव है? I. शांत रस। II. करुण रस। III. हास्य रस। IV. शृंगार रस।	1
(3)	'तनकर भाला यूँ बोल उठा राणा मुझको विश्राम न दें। मुझको वैरी से हृदय-क्षोभ तू तनिक मुझे आराम न दे।' उपर्युक्त काव्य पंक्तियों में निहित रस है? I. वीर रस। II. शांत रस। III. करुण रस। IV. रौद्र रस।	1
(4)	किस रस को 'रसराज' भी कहा जाता है?	1

	I. शांत रस। II. करुण रस। III. हास्य रस। IV. शृंगार रस।	
(5)	'वीभत्स रस' का स्थायी भाव है? I. उत्साह। II. शोक। III. जुगुप्सा। IV. हास।	1
	पाठ्य-पुस्तक	(14)
प्रश्न 7.	निम्नलिखित गद्यांश को को पढ़कर दिये प्रश्नों के उत्तरार्थ सबसे उचित विकल्प लिखये	5x1=5
	<p>खेतीबारी करते, परिवार रखते भी, बालगोबिन भगत साधु थे –साधु की सब परिभाषाओं में खरे उतरनेवाले। कबीर को 'साहब' मानते थे, उन्हीं के गीतों को गाते, उन्हीं के आदेशों पर चलते। कभी झूठ नहीं बोलते, खरा व्यवहार रखते। किसी से भी दो-टूक बात करने में संकोच नहीं करते, न किसी से खामखाह झगड़ा मोल लेते। किसी की चीज नहीं छूते, न बिना पूछे व्यवहार में लाते। इस नियम को कभी-कभी इतनी बारीकी तक ले जाते कि लोगों को कुतूहल होता!-कभी वह दूसरे के खेत में शौच के लिए भी नहीं बैठते! वह गृहस्थ थे; लेकिन उनकी सब चीज 'साहब' की थी। जो कुछ खेत में पैदा होता, सिर पर लादकर पहले उसे 'साहब' के दरबार में ले जाते – जो उनके घर से चार कोस दूर पर था-एक कबीरपंथी मठ से मतलब! वह दरबार में 'भेंट' रूप रख लिया जाता। 'प्रसाद' रूप में जो उन्हें मिलता, उसे घर लाते और उसी से गुजर चलाते!</p>	
(1)	लेखक ने बालगोबिन भगत को साधु क्यों कहा है? I. वे साधु के समान दिखते थे। II. वे मोह-माया से दूर थे। III. वे सच्चे साधुओं जैसा ही उत्तम आचार-विचार रखते थे। IV. वे किसी से झगड़ा नहीं करते थे।	1
(2)	बालगोबिन भगत का कौन-सा कार्य-व्यवहार लोगों के आश्चर्य का विषय था? I. जीवन के सिद्धांतों और आदर्शों का गहराई से अपने आचरण में पालन करना। II. गीत गाते रहना। III. किसी से झगड़ा न करना। IV. अपना काम स्वयं करना।	1
(3)	बालगोबिन भगत कबीर के आदर्शों पर चलते थे क्योंकि? I. कबीर भगवान का रूप थे। II. वे कबीर की विचारधारा से प्रभावित थे। III. कबीर उनके गाँव के मुखिया थे। IV. कबीर उनके मित्र थे।	1
(4)	बालगोबिन भगत के खेत में जो कुछ पैदा होता, उसे वे सर्वप्रथम किसे भेंट कर देते? I. गरीबों को। II. मंदिर में। III. घर में। IV. कबीरपंथी मठ में।	1

(5)	‘वह गृहस्थ थे; लेकिन उनकी सब चीज़ ‘साहब’ की थी।’- यहाँ ‘साहब’ से क्या आशय है? I. गुरु II. मुखिया III. कबीर IV. भगवान	1
प्रश्न 8.	निम्नलिखित प्रश्नों के उत्तर सही विकल्प चुनकर लिखिए-	2x1=2
(1)	‘नेताजी का चश्मा’ कहानी में कैप्टन कौन था? I. हालदार साहब II. पानवाला III. चश्मे बेचने वाला IV. अध्यापक	1
(2)	फ़ादर कामिल बुल्के का हिन्दी प्रेम किस प्रसंग से प्रकट होता है? I. उन्होंने प्रामाणिक अंग्रेज़ी-हिन्दी शब्दकोश तैयार किया II. भारत आकर पढ़ना III. ‘परिमल’ के सदस्यों से गहरा लगाव IV. भारतीय संस्कृति के अभिन्न अंग थे	1
प्रश्न 9.	निम्नलिखित पद्यांश को पढ़कर दिये प्रश्नों के उत्तरार्थ सबसे उचित विकल्प लिखिये	5x1=5
	हमारैं हरि हारिल की लकरी । मन क्रम बचन नंद-नंदन उर, यह दृढ़ करि पकरी । जागत सोवत स्वप्न दिवस-निसि, कान्ह-कान्ह जकरी । सुनत जोग लागत है ऐसौ, ज्यों करुई ककरी । सु तौ ब्याधि हमकौ लै आए, देखी सुनी न करी । यह तौ ‘सूर’ तिनहिं लै सौंपौ, जिनके मन चकरी॥	
(1)	गोपियों ने अपनी तुलना हारिल के पक्षी से क्यों की है? I. हारिल पक्षी सदैव लकड़ी लिए उड़ता है II. गोपियों को हारिल पक्षी पसंद है III. श्रीकृष्ण के प्रति अपने एकनिष्ठ प्रेम के कारण IV. श्रीकृष्ण के प्रति अपनी नाराज़गी के कारण	1
(2)	‘नंद-नंदन’ विशेषण किसके लिए प्रयुक्त हुआ है? I. श्रीकृष्ण के लिए II. गोपियों के लिए III. उद्धव के लिए IV. नंद के लिए	1
(3)	गोपियाँ किसे व्याधि कह रही हैं? I. उद्धव की बातों को II. उद्धव के योग ज्ञान को III. श्रीकृष्ण के विरह को IV. श्रीकृष्ण के प्रेम को	1
(4)	गोपियों को योग-साधना कैसी लगती है?	1

	I. हारिल की लकड़ी की तरह। II. हारिल पक्षी के समान। III. जिसे कभी न देखा हो। IV. कड़वी ककड़ी के समान।	
(5)	गोपियाँ योग का संदेश किनके लिए उपयुक्त समझती हैं? I. जो श्रीकृष्ण से प्रेम नहीं करते। II. जिनका मन स्थिर नहीं है। III. जिनका मन स्थिर है। IV. श्रीकृष्ण के लिए।	1
प्रश्न 10.	निम्नलिखित में से निर्देशानुसार विकल्पों का चयन कीजिए:-	2x1=2
(1)	क्रोधित होते हुए भी परशुराम जी ने लक्ष्मण का वध क्यों नहीं किया? I. लक्ष्मण ने शिव-धनुष भंग नहीं किया था। II. लक्ष्मण को कम आयु का बालक जानकर। III. सभा में सब उपस्थित थे। IV. वे ब्राम्हण थे।	1
(2)	‘कन्यादान’ कविता में स्त्री जीवन के बंधन किसे कहा गया है? I. समाज को। II. अशिक्षा को। III. अत्यचारों को। IV. वस्त्रों-आभूषणों को।	1
	खंड 'ब' वर्णनात्मक प्रश्न	
	पाठ्य-पुस्तक एवं पूरक पाठ्य-पुस्तक	(20)
प्रश्न 11.	निम्नलिखित प्रश्नों के उत्तर लगभग 25-30 शब्दों में लिखिए:-	2x4=8
(i)	हालदार साहब कैप्टन को देखकर अवाक् क्यों रह गए? ‘नेताजी का चश्मा’ पाठ के आधार पर लिखिए।	2
(iii)	बालगोबिन भगत जी अपनी पतोहू को उत्सव मनाने को क्यों कहते हैं?	2
(iii)	‘लखनवी अंदाज़’ पाठ के आधार पर बताइए कि लेखक ने खीरा खाने से मना क्यों किया?	2
(iv)	फ़ादर कामिल बुल्के एक संन्यासी थे, परन्तु पारंपरिक अर्थ में हम उन्हें संन्यासी क्यों नहीं कह सकते?	2
प्रश्न 12.	निम्नलिखित प्रश्नों के उत्तर लगभग 60-70 शब्दों में लिखिए:-	2x3=6
(i)	‘निराला’ की कविता ‘उत्साह’ और ‘ऋतुराज’ की कविता ‘कन्यादान’ दोनों में जिस सामाजिक बदलाव की अपेक्षा की गई है उस की प्रासंगिकता पर अपने विचार व्यक्त कीजिए।	2
(ii)	‘अट नहीं रही है’ कविता के आधार पर फागुन में उमड़े प्राकृतिक सौंदर्य का वर्णन अपने शब्दों में कीजिए।	2
(iii)	धनुष भंग करने वाली सभा में एकत्रित जन ‘हाय-हाय’ क्यों पुकारने लगे थे? ‘राम-लक्ष्मण-परशुराम संवाद’ पाठ के आधार पर अपने विचार लिखिए।	2
प्रश्न 13.	निम्नलिखित प्रश्नों में से किन्हीं 2 प्रश्नों के उत्तर लगभग 40-50 शब्दों में लिखिए:-	3x2=6
(i)	‘माता का अँचल’ पाठ के आधार पर बताइए कि तत्कालीन व वर्तमान समय में बच्चों की खेल-सामग्रियों में क्या परिवर्तन आए हैं? बच्चों के खेलों में हुए परिवर्तनों का उनके मूल्यों पर कितना प्रभाव पड़ा है?	3

(ii)	सरकारी तंत्र में जॉर्ज पंचम की नाक लगाने को लेकर जो चिंता और बदहवासी दिखाई देती है, वह उनकी किस मानसिकता को दर्शाती है? स्पष्ट कीजिए।	3
(iii)	‘साना-साना हाथ जोड़ि’ पाठ में कहा गया है कि ‘कटाओ’ पर किसी दुकान का न होना वरदान है, ऐसा क्यों? भारत के अन्य प्राकृतिक स्थानों को वरदान बनाने में युवा नागरिक की क्या भूमिका हो सकती है?	3
	लेखन	(20)
प्रश्न 14.	निम्नलिखित में से किसी <u>1</u> विषय पर दिए गए संकेत-बिन्दुओं के आधार पर लगभग 80-100 शब्दों में एक अनुच्छेद लिखिए:- <ol style="list-style-type: none"> 1. परीक्षा से पहले मेरी मनोदशा <ul style="list-style-type: none"> ❖ परीक्षा नाम से भय ❖ पर्याप्त तैयारी ❖ प्रश्न पत्र देखकर भय दूर हुआ 2. कोरोना वायरस <ul style="list-style-type: none"> ❖ कोरोना का संक्रमण ❖ बचाव के उपाय ❖ लॉकडाउन के सकारात्मक प्रभाव 3. जंक फूड <ul style="list-style-type: none"> ❖ जंक फूड क्या होता है? ❖ युवा पीढ़ी और जंक फूड ❖ जंक फूड खाने के दुष्परिणाम 	1x5=5
प्रश्न 15.	एक दैनिक समाचार पत्र के संपादक को अपनी कविता प्रकाशित करवाने का अनुरोध करते हुए एक पत्र 80-100 शब्दों में लिखिए। <p style="text-align: center;"><u>अथवा</u></p> छात्रावास में रहने वाले अपने छोटे भाई को एक पत्र 80-100 शब्दों में लिखकर प्रातःकाल नियमित रूप से योग एवं प्राणायाम का अभ्यास करने के लिए प्रेरित कीजिए।	1x5=5
प्रश्न 16.	पर्यावरण विभाग की ओर से जल-संरक्षण का आग्रह करते हुए एक विज्ञापन लगभग 25-50 शब्दों में तैयार कीजिए। <p style="text-align: center;"><u>अथवा</u></p> ‘रोशनी’ मोमबत्ती बनाने वाली कंपनी के लिए एक विज्ञापन लगभग 25-50 शब्दों में तैयार कीजिए।	1x5=5
प्रश्न 17.	अपनी छोटी बहन के जन्मदिवस पर उसे एक बधाई संदेश 30-40 शब्दों में लिखिए। <p style="text-align: center;"><u>अथवा</u></p> ‘शिक्षक दिवस’ के अवसर पर अपने हिन्दी शिक्षक के लिए एक भावपूर्ण संदेश 30-40 शब्दों में लिखिए।	1x5=5

Class- X
Mathematics-Basic (241)
Sample Question Paper 2020-21

Max. Marks: 80

Duration:3 hours

General Instructions:

1. This question paper contains two parts A and B.
2. Both Part A and Part B have internal choices.

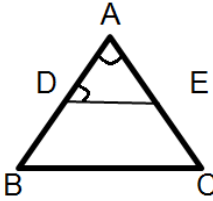
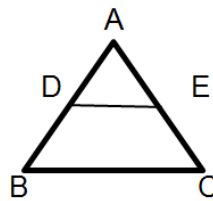
Part – A:

1. It consists of two sections- I and II
2. Section I has 16 questions. Internal choice is provided in 5 questions.
3. Section II has four case study-based questions. Each case study has 5 case-based sub-parts. An examinee is to attempt any 4 out of 5 sub-parts.


Part – B:

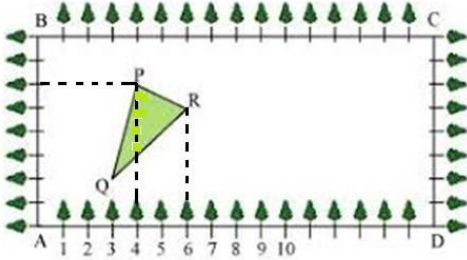
1. Question No 21 to 26 are Very short answer Type questions of 2 mark each,
2. Question No 27 to 33 are Short Answer Type questions of 3 marks each
3. Question No 34 to 36 are Long Answer Type questions of 5 marks each.
4. Internal choice is provided in 2 questions of 2 marks, 2 questions of 3 marks and 1 question of 5 marks.


Question No.	Part-A	Marks
	Section-I	
1.	Express 156 as the product of primes.	1
2.	Write a quadratic polynomial, sum of whose zeroes is 2 and product is -8.	1
3.	Given that HCF (96,404) is 4, find the LCM (96,404). OR State the fundamental Theorem of Arithmetic.	1

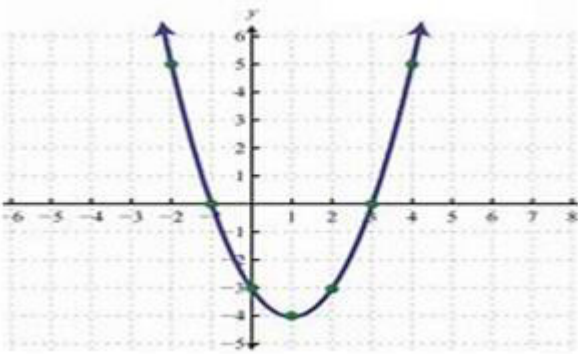
4	<p>On comparing the ratios of the coefficients, find out whether the pair of equations $x - 2y = 0$ and $3x + 4y - 20 = 0$ is consistent or inconsistent.</p>	1
5	<p>If a and b are co-prime numbers, then find the HCF (a, b).</p>	1
6	<p>Find the area of a sector of a circle with radius 6cm if angle of the sector is 60°. (Take $\pi = 22/7$)</p> <p style="text-align: center;">OR</p> <p>A horse tied to a pole with 28m long rope. Find the perimeter of the field where the horse can graze. (Take $\pi = 22/7$)</p>	1
7	<p>In the given fig. $DE \parallel BC$, $\angle ADE = 70^\circ$ and $\angle BAC = 50^\circ$, then angle $\angle BCA = \underline{\hspace{2cm}}$</p> <div style="text-align: center;">  </div> <p style="text-align: center;">OR</p> <p>In the given figure, $AD = 2\text{cm}$, $BD = 3\text{cm}$, $AE = 3.5\text{cm}$ and $AC = 7\text{cm}$. Is DE parallel to BC ?</p> <div style="text-align: center;">  </div>	1

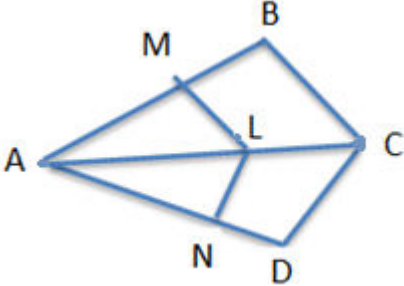
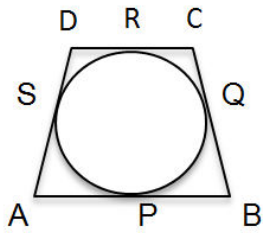
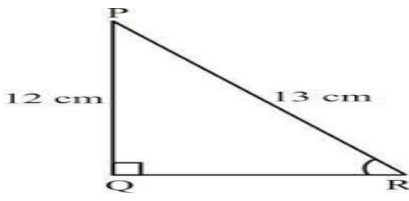
8	The cost of fencing a circular field at the rate of Rs.24 per metre is Rs. 5280. Find the radius of the field.	1
9	A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground where it makes an angle 30° . The distance between the foot of the tree to the point where the top touches the ground is 8m. Find the height of the tree from where it is broken.	1
10	If the perimeter and the area of a circle are numerically equal, then find the radius of the circle	1
11	Write the empirical relationship among mean, median and mode.	1
12	To divide a line segment BC internally in the ratio 3 : 5, we draw a ray BX such that $\angle CBX$ is an acute angle. What will be the minimum number of points to be located at equal distances, on ray BX?	1
13	For what values of p does the pair of equations $4x + p y + 8 = 0$ and $2x + 2y + 2 = 0$ has unique solution? OR What type of straight lines will be represented by the system of equations $2x + 3y = 5$ and $4x + 6y = 7$?	1
14	A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is red? OR A die is thrown once. What is the probability of getting a prime number?	1
15	A tower stands vertically on the ground. From a point on the ground, which is 15m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60° . Find the height of the tower.	1
16	Probability of an event E + Probability of the event \bar{E} (not E) is, _____	1

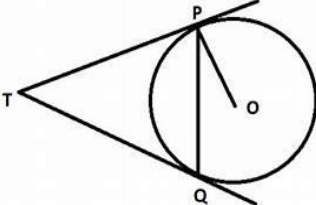
Section-II		
Case study-based questions are compulsory. Attempt any 4 sub parts from each question. Each question carries 1 mark		
17		
	<p>Mathematics teacher of a school took her 10th standard students to show Red fort. It was a part of their Educational trip. The teacher had interest in history as well. She narrated the facts of Red fort to students. Then the teacher said in this monument one can find combination of solid figures. There are 2 pillars which are cylindrical in shape. Also 2 domes at the corners which are hemispherical. 7 smaller domes at the centre. Flag hoisting ceremony on Independence Day takes place near these domes.</p>	
i)	<p>How much cloth material will be required to cover 2 big domes each of radius 2.5 metres? (Take $\pi = 22/7$)</p> <p>a) 75m^2 b) 78.57m^2 c) 87.47m^2 d) 25.8m^2</p>	1
ii)	<p>Write the formula to find the volume of a cylindrical pillar.</p> <p>a) $\pi r^2 h$ b) $\pi r l$ c) $\pi r(l + r)$ d) $2\pi r$</p>	1
iii)	<p>Find the lateral surface area of two pillars if height of the pillar is 7m and radius of the base is 1.4m.</p> <p>a) 112.3cm^2 b) 123.2m^2 c) 90m^2 d) 345.2cm^2</p>	1
iv)	<p>How much is the volume of a hemisphere if the radius of the base is 3.5m?</p> <p>a) 85.9 m^3 b) 80 m^3 c) 98 m^3 d) 89.83 m^3</p>	1

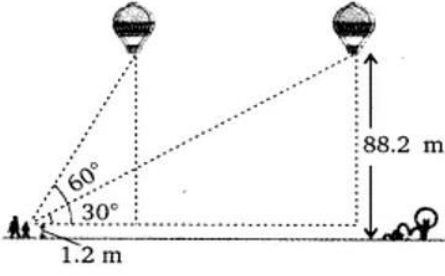
v)	<p>What is the ratio of sum of volumes of two hemispheres of radius 1cm each to the volume of a sphere of radius 2 cm?</p> <p>a) 1:1 b) 1:8 c) 8 :1 d) 1:16</p>	1
18	<p>Class X students of a secondary school in Krishnagar have been allotted a rectangular plot of a land for gardening activity. Saplings of Gulmohar are planted on the boundary at a distance of 1m from each other. There is a triangular grassy lawn in the plot as shown in the fig. The students are to sow seeds of flowering plants on the remaining area of the plot.</p>  <p>Considering A as origin, answer question (i) to (v)</p>	
i)	<p>Considering A as the origin, what are the coordinates of A?</p> <p>a) (0,1) b) (1,0) c) (0,0) d) (-1,-1)</p>	1
ii)	<p>What are the coordinates of P?</p> <p>a) (4,6) b) (6,4) c) (4,5) d) (5,4)</p>	1
iii)	<p>What are the coordinates of R?</p> <p>a) (6,5) b) (5,6) c) (6,0) d) (7,4)</p>	1
iv)	<p>What are the coordinates of D?</p> <p>a) (16,0) b) (0,0) c) (0,16) d) (16,1)</p>	1
v)	<p>What are the coordinate of P if D is taken as the origin?</p> <p>a) (12,2) b) (-12,6) c) (12,3) d) (6,10)</p>	1

19	 <p>Rahul is studying in X Standard. He is making a kite to fly it on a Sunday. Few questions came to his mind while making the kite. Give answers to his questions by looking at the figure.</p>	
i)	<p>Rahul tied the sticks at what angles to each other?</p> <p>a) 30° b) 60° c) 90° d) 60°</p>	1
ii)	<p>Which is the correct similarity criteria applicable for smaller triangles at the upper part of this kite?</p> <p>a) RHS b) SAS c) SSA d) AAS</p>	1
iii)	<p>Sides of two similar triangles are in the ratio 4:9. Corresponding medians of these triangles are in the ratio,</p> <p>a) 2:3 b) 4:9 c) 81:16 d) 16:81</p>	1
iv)	<p>In a triangle, if square of one side is equal to the sum of the squares of the other two sides, then the angle opposite the first side is a right angle. This theorem is called as,</p> <p>a) Pythagoras theorem b) Thales theorem c) Converse of Thales theorem d) Converse of Pythagoras theorem</p>	1
v)	<p>What is the area of the kite, formed by two perpendicular sticks of length 6 cm and 8 cm?</p> <p>a) 48 cm^2 b) 14 cm^2 c) 24 cm^2 d) 96 cm^2</p>	1

20	<p>Due to heavy storm an electric wire got bent as shown in the figure. It followed a mathematical shape. Answer the following questions below.</p> 	
i)	<p>Name the shape in which the wire is bent</p> <p>a) Spiral b) ellipse c) linear d) Parabola</p>	1
ii)	<p>How many zeroes are there for the polynomial (shape of the wire)</p> <p>a) 2 b) 3 c) 1 d) 0</p>	1
iii)	<p>The zeroes of the polynomial are</p> <p>a) -1, 5 b) -1, 3 c) 3, 5 d) -4, 2</p>	1
iv)	<p>What will be the expression of the polynomial?</p> <p>a) x^2+2x-3 b) x^2-2x+3 c) x^2-2x-3 d) x^2+2x+3</p>	1
v)	<p>What is the value of the polynomial if $x = -1$?</p> <p>a) 6 b) -18 c) 18 d) 0</p>	1
<p>Part –B</p> <p>All questions are compulsory. In case of internal choices, attempt anyone.</p>		
21	<p>Find the coordinates of the point which divides the line segment joining the points (4, -3) and (8,5) in the ratio 3:1 internally.</p>	2

	OR	
	Find a relation between x and y such that the point (x,y) is equidistant from the points (7,1) and (3,5)	
22	 <p>In the fig. if $LM \parallel CB$ and $LN \parallel CD$, prove that $\frac{AM}{MB} = \frac{AN}{ND}$</p>	2
23	<p>A quadrilateral ABCD is drawn to circumscribe a circle. Prove that $AB + CD = AD + BC$.</p> 	2
24	Draw a line segment of length 7.8 cm and divide it in the ratio 5:8. Measure the two parts.	2
25	<p>Given $15 \cot A = 8$, find $\sin A$ and $\sec A$.</p> <p style="text-align: center;">OR</p> <p>Find $\tan P - \cot R$</p> 	2

26	How many terms of the A. P : 9,17,25,must be taken to give a sum 636?	2
Part –B		
All questions are compulsory. In case of internal choices, attempt anyone.		
27	Prove that $\sqrt{3}$ is an irrational number.	3
28	Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that $\angle PTQ = 2\angle OPQ$.	3
		
29	Meena went to a bank to withdraw Rs.2,000. She asked the cashier to give her Rs.50 and Rs.100 notes only. Meena got 25 notes in all. Find how many notes of Rs.50 and Rs.100 she received.	3
30	<p>A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears</p> <p>(i) a two-digit number (ii) a perfect square number. (iii) a number divisible by 5.</p> <p style="text-align: center;">OR</p> <p>One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting</p> <p>(i) A king of red colour. (ii) A spade (iii) The queen of diamonds</p>	3
31	Metallic spheres of radii 6cm, 8cm and 10cm respectively are melted to form a solid sphere. Find the radius of the resulting sphere.	3

32	Prove that $\frac{\sin A - \cos A + 1}{\sin A + \cos A - 1} = \frac{1}{\sec A - \tan A}$	3
33	<p>A motor boat whose speed in still water is 18 km/h, takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.</p> <p style="text-align: center;">OR</p> <p>Find two consecutive odd positive integers, sum of whose squares is 290.</p>	3
<p>Part –B</p> <p>All questions are compulsory. In case of internal choices, attempt anyone.</p>		
34	<p>The angles of depression of the top and bottom of a 8m tall building from the top of a multi storied building are 30° and 45°, respectively. Find the height of the multi storied building and the distance between the two buildings.</p> <p style="text-align: center;">OR</p> <p>A 1.2m tall girl spots a balloon moving with the wind in a horizontal line at a height 88.2 m from the ground. The angle of elevation of the balloon from the eyes of the girl at any instant is 60°. After sometime, the angle of elevation reduces 30°. Find the distance travelled by the balloon during the interval.</p> <div style="text-align: center;">  </div>	5
35	<p>The p^{th}, q^{th} and r^{th} terms of an A.P. are a, b and c respectively. Show that $a(q - r) + b(r - p) + c(p - q) = 0$</p>	5

36

A survey regarding the heights in (cm) of 51 girls of class X of a school was conducted and the following data was obtained. Find the median height and the mean using the formulae.

5

Height (in cm)	Number of Girls
Less than 140	4
Less than 145	11
Less than 150	29
Less than 155	40
Less than 160	46
Less than 165	51

Class- X Session- 2020-21
Subject- Mathematics -Standard
Sample Question Paper

Time Allowed: 3 Hours

Maximum Marks: 80

General Instructions:

1. This question paper contains two parts A and B.
2. Both Part A and Part B have internal choices.

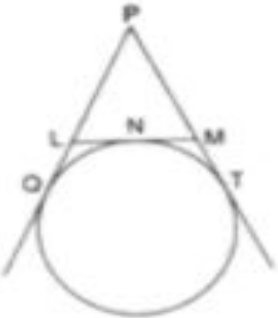
Part – A:

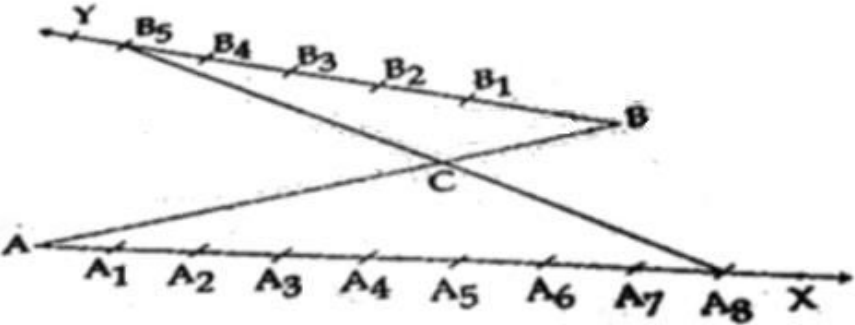
1. It consists three sections- I and II.
2. Section I has 16 questions of 1 mark each. Internal choice is provided in 5 questions.
3. Section II has 4 questions on case study. Each case study has 5 case-based sub-parts. An examinee is to attempt any 4 out of 5 sub-parts.

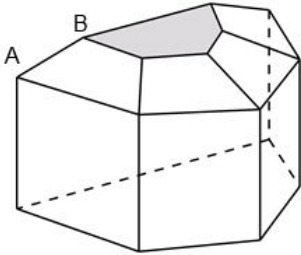
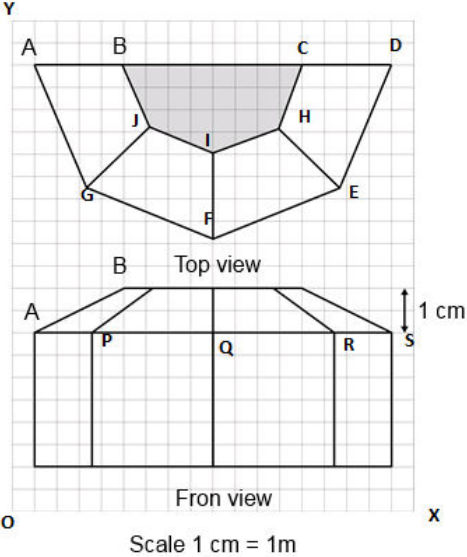
Part – B:

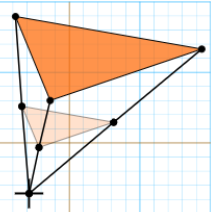
1. Question No 21 to 26 are Very short answer Type questions of 2 mark each,
2. Question No 27 to 33 are Short Answer Type questions of 3 marks each
3. Question No 34 to 36 are Long Answer Type questions of 5 marks each.
4. Internal choice is provided in 2 questions of 2 marks, 2 questions of 3 marks and 1 question of 5 marks.

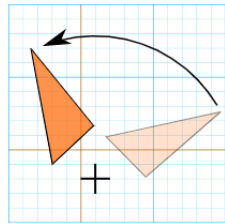
Question No.	Part-A	Marks allocated
	Section-I Section I has 16 questions of 1 mark each. Internal choice is provided in 5 questions.	
1	<p>If $xy=180$ and $HCF(x,y)=3$, then find the $LCM(x,y)$.</p> <p style="text-align: center;">OR</p> <p>The decimal representation of $\frac{14587}{2^1 \times 5^4}$ will terminate after how many decimal places?</p>	1
2	If the sum of the zeroes of the quadratic polynomial $3x^2-kx+6$ is 3, then find the value of k.	1

3.	For what value of k, the pair of linear equations $3x+y=3$ and $6x+ky=8$ does not have a solution.	1
4.	If 3 chairs and 1 table costs Rs. 1500 and 6 chairs and 1 table costs Rs.2400. Form linear equations to represent this situation.	1
5.	Which term of the A.P. 27, 24, 21,.....is zero? OR In an Arithmetic Progression, if $d= - 4$, $n=7$, $a_n=4$, then find a.	1
6.	For what values of k, the equation $9x^2+6kx+4=0$ has equal roots?	
7.	Find the roots of the equation $x^2+7x+10=0$ OR For what value(s) of 'a' quadratic equation $30ax^2 - 6x + 1 = 0$ has no real roots?	1
8.	If $PQ=28\text{cm}$, then find the perimeter of $\triangle PLM$ 	1
9.	If two tangents are inclined at 60° are drawn to a circle of radius 3cm then find length of each tangent. OR PQ is a tangent to a circle with centre O at point P. If $\triangle OPQ$ is an isosceles triangle, then find $\angle OQP$.	1

10.	In the $\triangle ABC$, D and E are points on side AB and AC respectively such that $DE \parallel BC$. If $AE=2\text{cm}$, $AD=3\text{cm}$ and $BD=4.5\text{cm}$, then find CE.	1
11.	<p>In the figure, if B_1, B_2, B_3, \dots and A_1, A_2, A_3, \dots have been marked at equal distances. In what ratio C divides AB?</p> 	1
12.	$\sin A + \cos B = 1$, $A = 30^\circ$ and B is an acute angle, then find the value of B.	1
13.	If $x=2\sin^2\theta$ and $y=2\cos^2\theta+1$, then find $x+y$	1
14.	In a circle of diameter 42cm, if an arc subtends an angle of 60° at the centre where $\pi=22/7$, then what will be the length of arc.	1
15.	12 solid spheres of the same radii are made by melting a solid metallic cylinder of base diameter 2cm and height 16cm. Find the diameter of the each sphere.	1
16.	<p>Find the probability of getting a doublet in a throw of a pair of dice.</p> <p style="text-align: center;">OR</p>	1

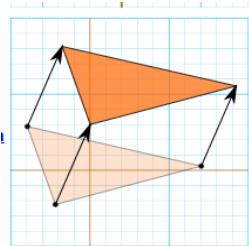
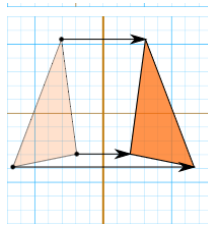
	Find the probability of getting a black queen when a card is drawn at random from a well-shuffled pack of 52 cards.	
	Section-II	
	<p>Case study based questions are compulsory. Attempt any four sub parts of each question. Each subpart carries 1 mark</p> <p>17. Case Study based-1 SUN ROOM</p> <p>The diagrams show the plans for a sun room. It will be built onto the wall of a house. The four walls of the sunroom are square clear glass panels. The roof is made using</p> <ul style="list-style-type: none"> • Four clear glass panels, trapezium in shape, all the same size • One tinted glass panel, half a regular octagon in shape <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="467 1045 766 1346" style="text-align: center;">  <p>Not to scale</p> </div> <div data-bbox="792 898 1256 1451" style="text-align: center;">  <p>Scale 1 cm = 1m</p> </div> </div>	
(a)	<p>Refer to Top View</p> <p>Find the mid-point of the segment joining the points J (6, 17) and I (9, 16).</p> <p>(i) $(\frac{33}{2}, \frac{15}{2})$</p> <p>(ii) $(\frac{3}{2}, \frac{1}{2})$</p> <p>(iii) $(\frac{15}{2}, \frac{33}{2})$</p> <p>(iv) $(\frac{1}{2}, \frac{3}{2})$</p>	1

(b)	<p>Refer to Top View</p> <p>The distance of the point P from the y-axis is</p> <p>(i) 4 (ii) 15 (iii) 19 (iv) 25</p>	1
(c)	<p>Refer to Front View</p> <p>The distance between the points A and S is</p> <p>(i) 4 (ii) 8 (iii) 16 (iv) 20</p>	1
(d)	<p>Refer to Front View</p> <p>Find the co-ordinates of the point which divides the line segment joining the points A and B in the ratio 1:3 internally.</p> <p>(i) (8.5,2.0) (ii) (2.0,9.5) (iii) (3.0,7.5) (iv) (2.0,8.5)</p>	1
(e)	<p>Refer to Front View</p> <p>If a point (x,y) is equidistant from the Q(9,8) and S(17,8), then</p> <p>(i) $x+y=13$ (ii) $x-13=0$ (iii) $y-13=0$ (iv) $x-y=13$</p>	1
18.	<p>Case Study Based- 2</p> <p>SCALE FACTOR AND SIMILARITY</p> <p>SCALE FACTOR</p> <p>A scale drawing of an object is the same shape as the object but a different size.</p> <p>The scale of a drawing is a comparison of the length used on a drawing to the length it represents. The scale is written as a ratio.</p> <p>SIMILAR FIGURES</p> <p>The ratio of two corresponding sides in similar figures is called the scale factor.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Scale factor = $\frac{\text{length in image}}{\text{corresponding length in object}}$</p> <p>If one shape can become another using Resizing then the shapes are Similar</p> </div> </div>	



Rotation or Turn

Reflection or Flip



Translation or Slide

Hence, two shapes are **Similar** when one can become the other after a resize, flip, slide or turn.

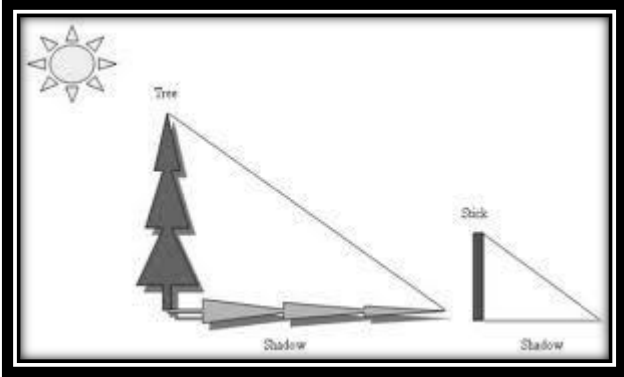
(a)

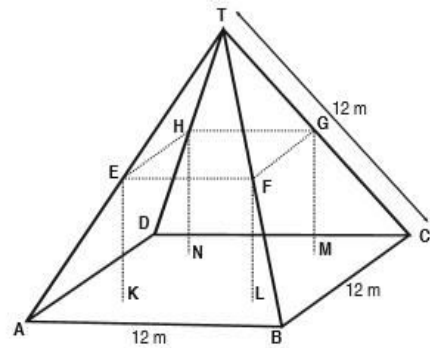
A model of a boat is made on the scale of 1:4. The model is 120cm long. The full size of the boat has a width of 60cm. What is the width of the scale model?

1



- (i) 20 cm
- (ii) 25 cm
- (iii) 15 cm
- (iv) 240 cm

(b)	<p>What will effect the similarity of any two polygons?</p> <p>(i) They are flipped horizontally (ii) They are dilated by a scale factor (iii) They are translated down (iv) They are not the mirror image of one another</p>	1
(c)	<p>If two similar triangles have a scale factor of a: b. Which statement regarding the two triangles is true?</p> <p>(i) The ratio of their perimeters is $3a : b$ (ii) Their altitudes have a ratio $a:b$ (iii) Their medians have a ratio $\frac{a}{2} : b$ (iv) Their angle bisectors have a ratio $a^2 : b^2$</p>	1
(d)	<p>The shadow of a stick 5m long is 2m. At the same time the shadow of a tree 12.5m high is</p>  <p>(i) 3m (ii) 3.5m (iii) 4.5m (iv) 5m</p>	1
(e)	<p>Below you see a student's mathematical model of a farmhouse roof with measurements. The attic floor, ABCD in the model, is a square. The beams that support the roof are the edges of a rectangular prism, EFGHLMN. E is the middle of AT, F is the middle of BT, G is the middle of CT, and H is the middle of DT. All the edges of the pyramid in the model have length of 12 m.</p>	1



What is the length of EF, where EF is one of the horizontal edges of the block?

- (i) 24m
- (ii) 3m
- (iii) 6m
- (iv) 10m

19.

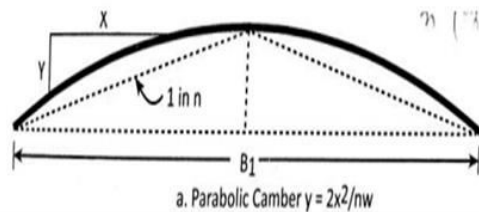
Case Study Based- 3

Applications of Parabolas-Highway Overpasses/Underpasses

A highway underpass is parabolic in shape.

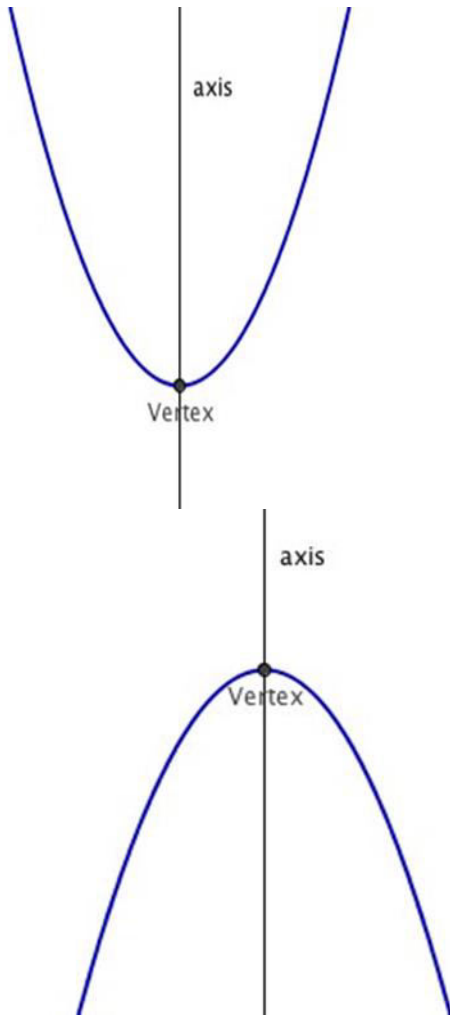


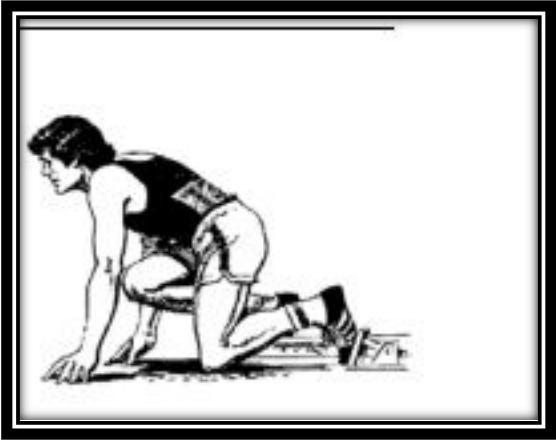
➤ **Shape Of Cross Slope:**



Parabola

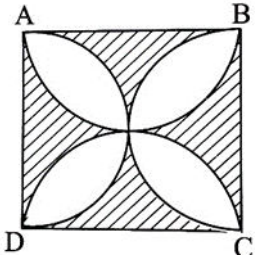
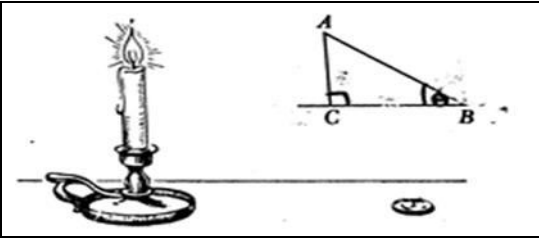
A parabola is the graph that results from $p(x)=ax^2+bx+c$. Parabolas are symmetric about a vertical line known as the **Axis of Symmetry**. The Axis of Symmetry runs through the maximum or minimum point of the parabola which is called the

	<p>Vertex</p> 	
(a)	<p>If the highway overpass is represented by x^2-2x-8. Then its zeroes are</p> <ul style="list-style-type: none"> (i) (2,-4) (ii) (4,-2) (iii) (-2,-2) (iv) (-4,-4) 	
(b)	<p>The highway overpass is represented graphically. Zeroes of a polynomial can be expressed graphically. Number of zeroes of polynomial is equal to number of points where the graph of polynomial</p> <ul style="list-style-type: none"> (i) Intersects x-axis (ii) Intersects y-axis (iii) Intersects y-axis or x-axis (iv) None of the above 	

(c)	<p>Graph of a quadratic polynomial is a</p> <ul style="list-style-type: none"> (i) straight line (ii) circle (iii) parabola (iv) ellipse 													
(d)	<p>The representation of Highway Underpass whose one zero is 6 and sum of the zeroes is 0, is</p> <ul style="list-style-type: none"> (i) $x^2 - 6x + 2$ (ii) $x^2 - 36$ (iii) $x^2 - 6$ (iv) $x^2 - 3$ 													
(e)	<p>The number of zeroes that polynomial $f(x) = (x - 2)^2 + 4$ can have is:</p> <ul style="list-style-type: none"> (i) 1 (ii) 2 (iii) 0 (iv) 3 													
20.	<p>Case Study Based- 4</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>100m RACE A stopwatch was used to find the time that it took a group of students to run 100 m.</p> </div> </div> <table border="1" style="width: 100%; margin-top: 20px;"> <thead> <tr> <th>Time (in sec)</th> <th>0-20</th> <th>20-40</th> <th>40-60</th> <th>60-80</th> <th>80-100</th> </tr> </thead> <tbody> <tr> <td>No. of students</td> <td>8</td> <td>10</td> <td>13</td> <td>6</td> <td>3</td> </tr> </tbody> </table>	Time (in sec)	0-20	20-40	40-60	60-80	80-100	No. of students	8	10	13	6	3	
Time (in sec)	0-20	20-40	40-60	60-80	80-100									
No. of students	8	10	13	6	3									

(a)	Estimate the mean time taken by a student to finish the race. (i)54 (ii)63 (iii)43 (iv)50	
(b)	What will be the upper limit of the modal class ? (i)20 (ii)40 (iii)60 (iv)80	
(c)	The construction of cummulative frequency table is useful in determining the (i)Mean (ii)Median (iii)Mode (iv)All of the above	
(d)	The sum of lower limits of median class and modal class is (i)60 (ii)100 (iii)80 (iv)140	
(e)	How many students finished the race within 1 minute? (i)18 (ii)37 (iii)31 (iv)8	
	Part –B All questions are compulsory. In case of internal choices, attempt any one.	
21.	3 bells ring at an interval of 4,7 and 14 minutes. All three bell rang at 6 am, when the three balls will the ring together next?	2
22.	Find the point on x-axis which is equidistant from the points (2,-2) and (-4,2)	2
	OR	

	P (-2, 5) and Q (3, 2) are two points. Find the co-ordinates of the point R on PQ such that PR=2QR	
23.	Find a quadratic polynomial whose zeroes are $5-3\sqrt{2}$ and $5+3\sqrt{2}$.	2
24.	Draw a line segment AB of length 9cm. With A and B as centres, draw circles of radius 5cm and 3cm respectively. Construct tangents to each circle from the centre of the other circle.	2
25.	If $\tan A = 3/4$, find the value of $1/\sin A + 1/\cos A$	2
	OR	
	If $\sqrt{3} \sin \theta - \cos \theta = 0$ and $0^\circ < \theta < 90^\circ$, find the value of θ	
26.	In the figure, quadrilateral ABCD is circumscribing a circle with centre O and $AD \perp AB$. If radius of incircle is 10cm, then the value of x is	2
27..	Prove that $2-\sqrt{3}$ is irrational, given that $\sqrt{3}$ is irrational.	3
28.	If one root of the quadratic equation $3x^2+px+4=0$ is $2/3$, then find the value of p and the other root of the equation.	3
	OR	
	The roots α and β of the quadratic equation $x^2-5x+3(k-1)=0$ are such that $\alpha-\beta=1$. Find the value k.	

29.	<p>In the figure, ABCD is a square of side 14 cm. Semi-circles are drawn with each side of square as diameter. Find the area of the shaded region.</p> 	3																		
30.	<p>The perimeters of two similar triangles are 25cm and 15cm respectively. If one side of the first triangle is 9cm, find the length of the corresponding side of the second triangle.</p> <p style="text-align: center;">OR</p> <p>In an equilateral triangle ABC, D is a point on side BC such that $BD = \frac{1}{3} BC$. Prove that $9 AD^2 = 7 AB^2$</p>	3																		
31.	<p>The median of the following data is 16. Find the missing frequencies a and b, if the total of the frequencies is 70.</p> <table border="1" data-bbox="399 1125 1385 1245"> <thead> <tr> <th>Class</th> <th>0-5</th> <th>5-10</th> <th>10-15</th> <th>15-20</th> <th>20-25</th> <th>25-30</th> <th>30-35</th> <th>35-40</th> </tr> </thead> <tbody> <tr> <td>Frequency</td> <td>12</td> <td>a</td> <td>12</td> <td>15</td> <td>b</td> <td>6</td> <td>6</td> <td>4</td> </tr> </tbody> </table>	Class	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	Frequency	12	a	12	15	b	6	6	4	3
Class	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40												
Frequency	12	a	12	15	b	6	6	4												
32.	 <p>If the angles of elevation of the top of the candle from two coins distant 'a' cm and 'b' cm ($a > b$) from its base and in the same straight line from it are 30° and 60°, then find the height of the candle.</p>	3																		

Section V

33.	<p>The mode of the following data is 67. Find the missing frequency x.</p> <table border="1" style="margin-left: auto; margin-right: auto;"><tr><td style="text-align: center;">Class</td><td style="text-align: center;">40-50</td><td style="text-align: center;">50-60</td><td style="text-align: center;">60-70</td><td style="text-align: center;">70-80</td><td style="text-align: center;">80-90</td></tr><tr><td style="text-align: center;">Frequency</td><td style="text-align: center;">5</td><td style="text-align: center;">x</td><td style="text-align: center;">15</td><td style="text-align: center;">12</td><td style="text-align: center;">7</td></tr></table>	Class	40-50	50-60	60-70	70-80	80-90	Frequency	5	x	15	12	7	3
Class	40-50	50-60	60-70	70-80	80-90									
Frequency	5	x	15	12	7									
34.	<p>The two palm trees are of equal heights and are standing opposite each other on either side of the river, which is 80 m wide. From a point O between them on the river the angles of elevation of the top of the trees are 60° and 30°, respectively. Find the height of the trees and the distances of the point O from the trees.</p> <p style="text-align: center;">OR</p> <p>The angles of depression of the top and bottom of a building 50 meters high as observed from the top of a tower are 30° and 60° respectively. Find the height of the tower, and also the horizontal distance between the building and the tower.</p>	5												
35.	<p>Water is flowing through a cylindrical pipe of internal diameter 2cm, into a cylindrical tank of base radius 40 cm at the rate of 0.7m/sec. By how much will the water rise in the tank in half an hour?</p>	5												
36.	<p>A motorboat covers a distance of 16km upstream and 24km downstream in 6 hours. In the same time it covers a distance of 12 km upstream and 36km downstream. Find the speed of the boat in still water and that of the stream.</p>	5												

(Painting Theory)
(Code No. -049) Class X
Sample Question Paper (2020-21)

Time allowed: 2 hours

Maximum Marks :30

Section : First

**Instructions: Which of the following statements are correct.:
All questions are compulsory**

1x6

a)

1. The secondary colours are red, yellow and green
2. The secondary colours are yellow, blue and red
3. The secondary colours are orange, violet and green
4. The secondary colours are green, orange and blue

b)

1. Darkness of colour is called Tone
2. Lightness of colour is called Tone
3. Darkness and lightness of colour is called Tone
4. Intensity of colour is called Tone

c)

1. Unity, harmony, balance and rhythm are principles of art
2. Unity, harmony, balance and Texture are principles of art
3. Unity, harmony, balance and Form are principles of art
4. Unity, harmony, balance and Space are principles of art

d)

1. A Pyramid has Three Sides
2. A Pyramid has Four Sides
3. A Pyramid has Five Sides
4. A Pyramid has Six Sides

e)

1. Brown stands for 'B' in VIBGYOR
2. Beige stands for 'B' in VIBGYOR
3. Blue stands for 'B' in VIBGYOR
4. Black stands for 'B' in VIBGYOR

Section : Second

General Instructions : Answer any three of the following questions

2x3

- a. Name any four materials of Painting and mention their merits?
- b. Write down the colours in VIBGYOR?
- c. Which types of pencils are used in drawing and shading?
- d. What is the difference between the water colours and the poster colours?

Section : Third

General Instructions : It is compulsory to answer both questions. 3x2

- a. In a still life, what are the elements and principles which needs to be taken care of?
- b. Name any three surfaces for Paintings? Which surface would you prefer and why?

Section : Fourth

Answer any One Question: 5x1

- a. On the basis of the Fundamentals of Painting, evaluate the world-renowned painting from Ajanta 'Padmapani-Bodhisattava' or the 'Ashokan Lion Capital' from Mauryan Period ?
- b. Mention the names of any four 'Elements' and any four 'Principles' of Painting?

Section : Fifth

1. **Write a short essay on any one of the following: 7x1**
Kailashnatha Temple
Or
Ashokan Lion Capital

Sample Question Paper 2020-21

Class X

Science (086) Theory

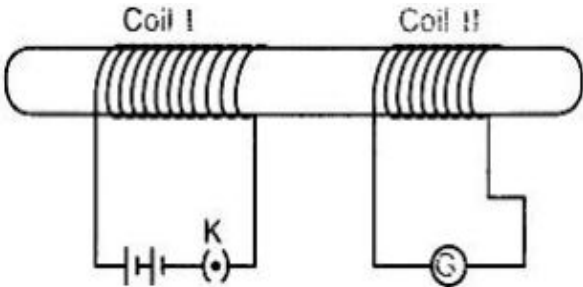
Time: 3 Hours

Maximum Marks: 80

General Instructions:

- (i) The question paper comprises four sections A, B, C and D. There are 36 questions in the question paper. All questions are compulsory.
- (ii) Section–A - question no. 1 to 20 - all questions and parts thereof are of one mark each. These questions contain multiple choice questions (MCQs), very short answer questions and assertion - reason type questions. Answers to these should be given in one word or one sentence.
- (iii) Section–B - question no. 21 to 26 are short answer type questions, carrying 2 marks each. Answers to these questions should be in the range of 30 to 50 words.
- (iv) Section–C - question no. 27 to 33 are short answer type questions, carrying 3 marks each. Answers to these questions should be in the range of 50 to 80 words.
- (v) Section–D - question no. 34 to 36 are long answer type questions carrying 5 marks each. Answer to these questions should be in the range of 80 to 120 words.
- (vi) There is no overall choice. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
- (vii) Wherever necessary, neat and properly labeled diagrams should be drawn.

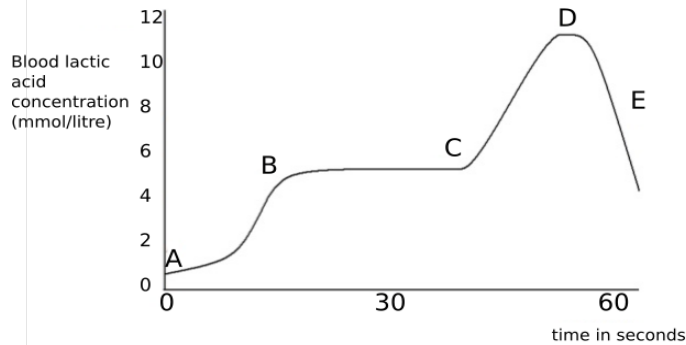
SECTION A		
No.	Questions	Marks
1	List any two observations when Ferrous Sulphate is heated in a dry test tube? OR Identify the products formed when 1 mL of dil. Hydrochloric acid is added to 1g of Sodium metal?	1
2	Write the chemical name and chemical formula of the salt used to remove permanent hardness of water.	1
3	Which of the following is not observed in a homologous series? Give reason for your choice. a) Change in chemical properties b) Difference in $-CH_2$ and 14u molecular mass c) Gradation in physical properties d) Same functional group	1
4	Why does the Sun appear white at noon?	1

5	Both a spherical mirror and a thin spherical lens have a focal length of (-15 cm) . What type of mirror and lens are these?	1
6	The image formed by a concave mirror is observed to be real, inverted and larger than the object. Where is the object placed? OR Name the part of a lens through which a ray of light passes without suffering any deviation.	1
7	In the arrangement shown in figure there are two coils wound on a non-conducting cylindrical rod. Initially the key is not inserted in the circuit. Later the key is inserted and then removed shortly after.  What are the two observations that can be noted from the galvanometer reading?	1
8	Draw the magnetic field lines around a straight current carrying conductor.	1
9	Two unequal resistances are connected in parallel. If you are not provided with any other parameters (eg. numerical values of I and R), what can be said about the voltage drop across the two resistors? OR Some work is done to move a charge Q from infinity to a point A in space. The potential of the point A is given as V. What is the work done to move this charge from infinity in terms of Q and V?	1
10	Veins are thin walled and have valves. Justify.	1
11	How is the wall of small intestine adapted for performing the function of absorption of food? OR Out of a goat and a tiger, which one will have a longer small intestine? Justify your answer.	1
12	Explain how ozone being a deadly poison can still perform an essential function for our environment. OR Give reason why a food chain cannot have more than four trophic levels.	1

13	State the role of pancreas in digestion of food.	1
<p>For question numbers 14, 15 and 16, two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:</p> <p>a) Both A and R are true, and R is correct explanation of the assertion. b) Both A and R are true, but R is not the correct explanation of the assertion. c) A is true, but R is false. d) A is false, but R is true.</p>		
14	<p>Assertion: After white washing the walls, a shiny white finish on walls is obtained after two to three days.</p> <p>Reason: Calcium Oxide reacts with Carbon dioxide to form Calcium Hydrogen Carbonate which gives shiny white finish.</p>	1
15	<p>Assertion: Food chain is responsible for the entry of harmful chemicals in our bodies.</p> <p>Reason: The length and complexity of food chains vary greatly.</p> <p style="text-align: center;">OR</p> <p>Assertion: Greater number of individuals are present in lower trophic levels.</p> <p>Reason: The flow of energy is unidirectional.</p>	1
16	<p>Assertion: A geneticist crossed a pea plant having violet flowers with a pea plant with white flowers, he got all violet flowers in first generation.</p> <p>Reason: White colour gene is not passed on to next generation.</p>	1
<p>Answer Q. No 17 - 20 contain five sub-parts each. You are expected to answer <u>any four sub-parts</u> in these questions.</p>		
17	<p>Read the following and answer any four questions from 17 (i) to 17 (v)</p> <p>All living cells require energy for various activities. This energy is available by the breakdown of simple carbohydrates either using oxygen or without using oxygen.</p>	1x4
	<p>(i) Energy in the case of higher plants and animals is obtained by</p> <p>a) Breathing b) Tissue respiration c) Organ respiration d) Digestion of food</p>	
	<p>(ii) The graph below represents the blood lactic acid concentration of an athlete during a race of 400 m and shows a peak at point D.</p>	

Respiration in athletics

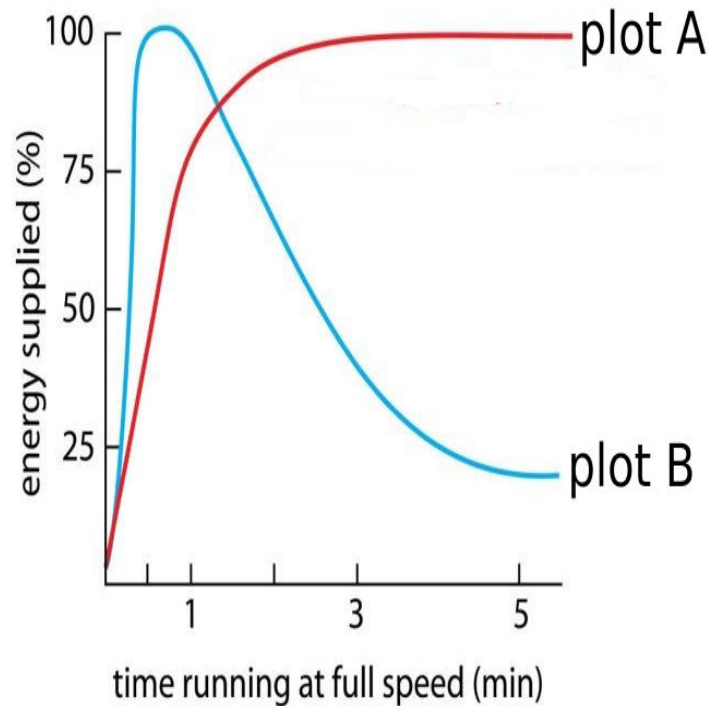
The blood of an athlete was tested before, during and after a 400m race:



Lactic acid production has occurred in the athlete while running in the 400 m race. Which of the following processes explains this event?

- a) Aerobic respiration
- b) Anaerobic respiration
- c) Fermentation
- d) Breathing

(iii) Study the graph below that represents the amount of energy supplied with respect to the time while an athlete is running at full speed.



Choose the correct combination of plots and justification provided in the following table.

	Plot A	Plot B	Justification
a)	Aerobic	Anaerobic	Amount of energy is low and inconsistent in aerobic and high in anaerobic
b)	Aerobic	Anaerobic	Amount of energy is high and consistent in aerobic and low in anaerobic
c)	Anaerobic	Aerobic	Amount of energy is high and consistent in aerobic and low in anaerobic
d)	Anaerobic	Aerobic	Amount of energy is high and inconsistent in anaerobic and low in aerobic

(iv) The characteristic processes observed in anaerobic respiration are

- i) presence of oxygen
- ii) release of carbon dioxide
- iii) release of energy
- iv) release of lactic acid

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

(v) Study the table below and select the row that has the incorrect information.

		Aerobic	Anaerobic
a)	Location	Cytoplasm	Mitochondria
b)	End Product	CO ₂ and H ₂ O	Ethanol and CO ₂
c)	Amount of ATP	High	Low
d)	Oxygen	Needed	Not needed

18

Read the following and answer any **four** questions from 18 (i) to 18 (v).

Metallic Character

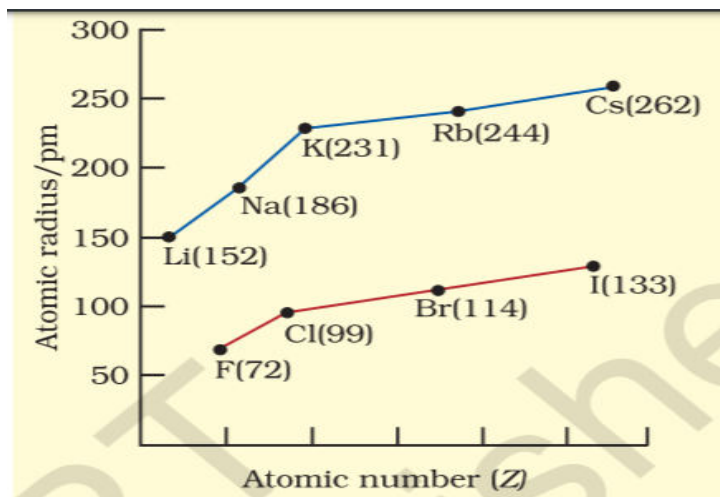
The ability of an atom to donate electrons and form positive ion (cation) is known as electropositivity or metallic character. Down the group, metallic character increases due to increase in atomic size and across the period, from

1 x 4

left to right electropositivity decreases due to decrease in atomic size.

Non-Metallic Character

The ability of an atom to accept electrons to form a negative ion (anion) is called non-metallic character or electronegativity. The elements having high electro-negativity have a higher tendency to gain electrons and form anion. Down the group, electronegativity decreases due to increase in atomic size and across the period, from left to right electronegativity increases due to decrease in atomic size.



18 (i) Which of the following correctly represents the decreasing order of metallic character of Alkali metals plotted in the graph?

- a) $Cs > Rb > Li > Na > K$
- b) $K > Rb > Li > Na > Cs$
- c) $Cs > Rb > K > Na > Li$
- d) $Cs > K > Rb > Na > Li$

18 (ii) Hydrogen is placed along with Alkali metals in the modern periodic table though it shows non-metallic character

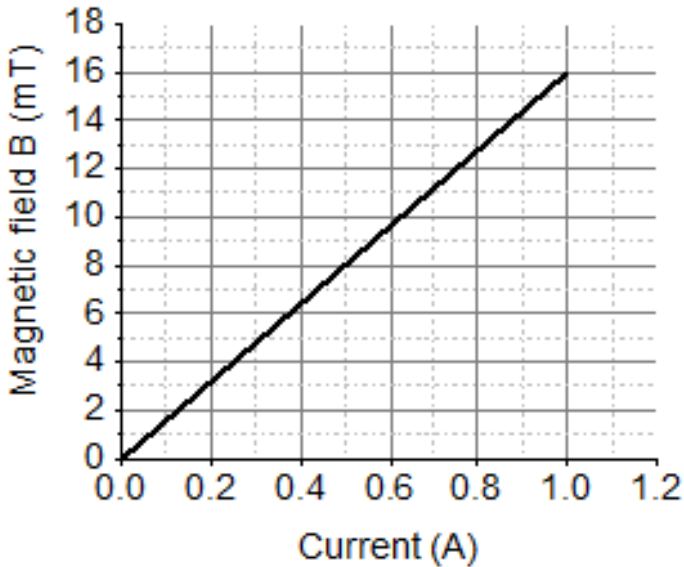
- a) as Hydrogen has one electron & readily loses electron to form negative ion
- b) as Hydrogen can easily lose one electron like alkali metals to form positive ion
- c) as Hydrogen can gain one electron easily like Halogens to form negative ion
- d) as Hydrogen shows the properties of non-metals

18 (iii) Which of the following has highest electronegativity?

- a) F
- b) Cl
- c) Br
- d) I

18 (iv)	<p>Identify the reason for the gradual change in electronegativity in halogens down the group.</p> <p>a) Electronegativity increases down the group due to decrease in atomic size</p> <p>b) Electronegativity decreases down the group due to decrease in tendency to lose electrons</p> <p>c) Electronegativity decreases down the group due to increase in atomic radius/ tendency to gain electron decreases</p> <p>d) Electronegativity increases down the group due to increase in forces of attractions between nucleus & valence electrons</p>	
18 (v)	<p>Which of the following reason correctly justifies that “Fluorine (72pm) has smaller atomic radius than Lithium (152pm)”?</p> <p>a) F and Li are in the same group. Atomic size increases down the group</p> <p>b) F and Li are in the same period. Atomic size increases across the period due to increase in number of shells</p> <p>c) F and Li are in the same group. Atomic size decreases down the group</p> <p>d) F and Li are in the same period and across the period atomic size/radius decreases from left to right.</p>	
19	<p>Read the following and answer any four questions from 19 (i) to 19 (v)</p> <p>Sumati wanted to see the stars of the night sky. She knows that she needs a telescope to see those distant stars. She finds out that the telescopes, which are made of lenses, are called refracting telescopes and the ones which are made of mirrors are called reflecting telescopes.</p> <div data-bbox="335 1254 1085 1747" data-label="Diagram"> </div> <p>So she decided to make a refracting telescope. She bought two lenses, L_1 and L_2. out of which L_1 was bigger and L_2 was smaller. The larger lens gathers and bends the light, while the smaller lens magnifies the image. Big, thick lenses are more powerful. So to see far away, she needed a big powerful lens. Unfortunately, she realized that a big lens is very heavy. Heavy lenses are hard to make and difficult to hold in the right place. Also</p>	1 x 4

	since the light is passing through the lens, the surface of the lens has to be extremely smooth. Any flaws in the lens will change the image. It would be like looking through a dirty window.	
19 (i)	Based on the diagram shown, what kind of lenses would Sumati need to make the telescope? a) Concave lenses b) Convex lenses c) Bifocal lenses d) Flat lenses	
19 (ii)	If the powers of the lenses L_1 and L_2 are in the ratio of 4:1, what would be the ratio of the focal length of L_1 and L_2 ? a) 4:1 b) 1:4 c) 2:1 d) 1:1	
19 (iii)	What is the formula for magnification obtained with a lens? a) Ratio of height of image to height of object b) Double the focal length. c) Inverse of the radius of curvature. d) Inverse of the object distance.	
19 (iv)	Sumati did some preliminary experiment with the lenses and found out that the magnification of the eyepiece (L_2) is 3. If in her experiment with L_2 she found an image at 24 cm from the lens, at what distance did she put the object? a) 72 cm b) 12 cm c) 8 cm d) 6 cm	
19 (v)	Sumati bought not-so-thick lenses for the telescope and polished them. What advantages, if any, would she have with her choice of lenses? a) She will not have any advantage as even thicker lenses would give clearer images. b) Thicker lenses would have made the telescope easier to handle. c) Not-so-thick lenses would not make the telescope very heavy and also allow considerable amount of light to pass. d) Not-so-thick lenses will give her more magnification.	

20	<p>Read the following and answer any 4 questions from 20 (i) to 20 (v).</p> <p>A solenoid is a long helical coil of wire through which a current is run in order to create a magnetic field. The magnetic field of the solenoid is the superposition of the fields due to the current through each coil. It is nearly uniform inside the solenoid and close to zero outside and is similar to the field of a bar magnet having a north pole at one end and a south pole at the other depending upon the direction of current flow. The magnetic field produced in the solenoid is dependent on a few factors such as, the current in the coil, number of turns per unit length etc.</p> <p>The following graph is obtained by a researcher while doing an experiment to see the variation of the magnetic field with respect to the current in the solenoid.</p> <p>The unit of magnetic field as given in the graph attached is in milli-Tesla (mT) and the current is given in Ampere.</p> 	4
20 (i)	<p>What type of energy conversion is observed in a linear solenoid?</p> <ol style="list-style-type: none"> Mechanical to Magnetic Electrical to Magnetic Electrical to Mechanical Magnetic to Mechanical 	
20 (ii)	<p>What will happen if a soft iron bar is placed inside the solenoid?</p> <ol style="list-style-type: none"> The bar will be electrocuted resulting in short-circuit. The bar will be magnetised as long as there is current in the circuit. The bar will be magnetised permanently. The bar will not be affected by any means. 	
20 (iii)	<p>The magnetic field lines produced inside the solenoid are similar to that of ...</p> <ol style="list-style-type: none"> a bar magnet 	

	<p>b. a straight current carrying conductor</p> <p>c. a circular current carrying loop</p> <p>d. electromagnet of any shape</p>	
20 (iv)	<p>After analysing the graph a student writes the following statements.</p> <p>I. The magnetic field produced by the solenoid is inversely proportional to the current.</p> <p>II. The magnetic field produced by the solenoid is directly proportional to the current.</p> <p>III. The magnetic field produced by the solenoid is directly proportional to square of the current.</p> <p>IV. The magnetic field produced by the solenoid is independent of the current.</p> <p>Choose from the following which of the following would be the correct statement(s).</p> <p>a. Only IV</p> <p>b. I and III and IV</p> <p>c. I and II</p> <p>d. Only II</p>	
20 (v)	<p>From the graph deduce which of the following statements is correct.</p> <p>a. For a current of 0.8A the magnetic field is 13 mT</p> <p>b. For larger currents, the magnetic field increases non-linearly.</p> <p>c. For a current of 0.8A the magnetic field is 1.3 mT</p> <p>d. There is not enough information to find the magnetic field corresponding to 0.8A current.</p>	
SECTION B		
21	<p>Bile juice does not have any digestive enzyme but still plays a significant role in the process of digestion. Justify the statement.</p> <p style="text-align: center;">OR</p> <p>In birds and mammals the left and right side of the heart are separated. Give reasons.</p>	2
22	<p>State the events occurring during the process of photosynthesis. Is it essential that these steps take place one after the other immediately?</p>	2
23	<p>Give a test that can be used to confirm the presence of carbon in a compound. With a valency of 4, how is carbon able to attain noble gas configuration in its compounds?</p> <p style="text-align: center;">OR</p> <p>The number of carbon compounds is more than those formed by all other elements put together. Justify the statement by giving two reasons.</p>	2

24

The following observations were made by a student on treating four metals P, Q, R and S with the given salt solutions:

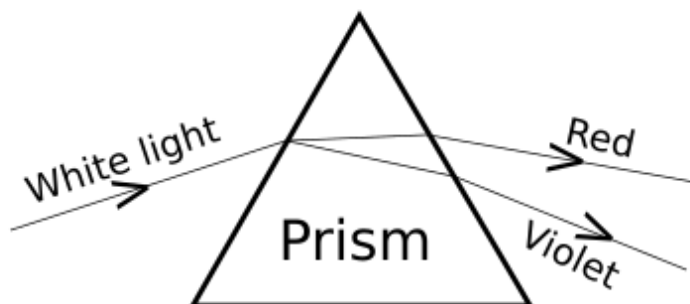
2

Sample	MgSO ₄ (aq)	Zn(NO ₃) ₂ (aq)	CaSO ₄ (aq)	Na ₂ SO ₄ (aq)
P	No reaction	Reaction occurs	Reaction occurs	No reaction
Q	Reaction occurs	Reaction occurs	Reaction occurs	Reaction occurs
R	No Reaction	Reaction Occurs	No Reaction	No Reaction
S	No Reaction	No Reaction	No Reaction	No Reaction

Based on the above observations:

- Arrange the given samples in the increasing order of reactivity
- Write the chemical formulae of products formed when Q reacts with CuSO₄ solution.

25



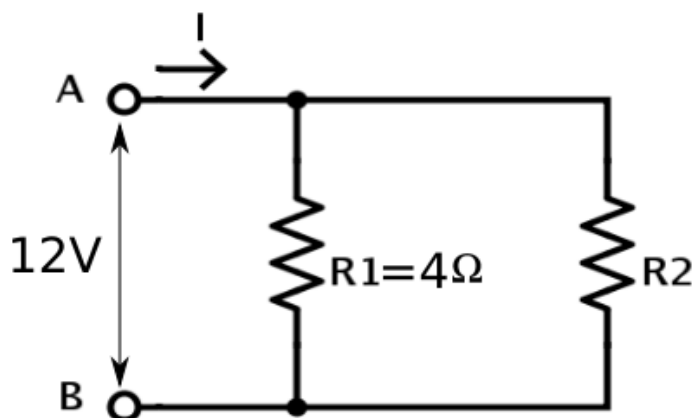
A student observes the above phenomenon in the lab as a white light passes through a prism. Among many other colours, he observed the position of the two colours Red and Violet.

What is the phenomenon called? What is the reason for the violet light to bend more than the red light?

2

26

2



A student has two resistors- $2\ \Omega$ and $3\ \Omega$. She has to put one of them in place of R_2 as shown in the circuit. The current that she needs in the entire circuit is exactly 9A . Show by calculation which of the two resistors she should choose.

Section C

27

After self-pollination in pea plants with round, yellow seeds, following types of seeds were obtained by Mendel:

3

Seeds	Number
Round, yellow	630
Round, green	216
Wrinkled, yellow	202
Wrinkled, green	64

Analyse the result and describe the mechanism of inheritance which explains these results.

OR

In humans, there is a 50% probability of the birth of a boy and 50 % probability that a girl will be born. Justify the statement on the basis of the mechanism of sex-determination in human beings.

28

Plastic cups were used to serve tea in trains in early days- these could be returned to the vendors, cleaned and reused. Later, *Kulhads* were used instead of plastic cups. Now, paper cups are used for serving tea. What are the reasons for the shift from Plastic to *Kulhads* and then finally to paper cups?

3

29

Explain where and how urine is produced?

3

30	<p>a. Which of the following reactions is/ are an <i>endothermic</i> reaction(s) where <i>decomposition</i> also happens?</p> <ul style="list-style-type: none"> • Respiration • Heating of lead nitrate • Decomposition of organic matter • Electrolysis of acidified water <p>b. Silver chloride when kept in the open turns grey. Illustrate this with a balanced chemical equation.</p>	3																																								
31	<p>The following table shows the position of five elements A, B, C, D and E in the modern periodic table.</p> <table border="1" data-bbox="277 698 1123 1046"> <tbody> <tr> <td>Group→</td> <td>1</td> <td>2</td> <td>3 to 12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>Period ↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>B</td> <td>C</td> </tr> <tr> <td>3</td> <td></td> <td>D</td> <td></td> <td></td> <td></td> <td>E</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Answer the following giving reasons:</p> <p>(i) Which element is a metal with valency two?</p> <p>(ii) Which element is least reactive?</p> <p>(iii) Out of D and E which element has a smaller atomic radius?</p>	Group→	1	2	3 to 12	13	14	15	16	17	18	Period ↓										2	A							B	C	3		D				E				3
Group→	1	2	3 to 12	13	14	15	16	17	18																																	
Period ↓																																										
2	A							B	C																																	
3		D				E																																				
32	<p>a. Explain the formation of Calcium Chloride with the help of electron dot structure. (At numbers: Ca = 20; Cl = 17)</p> <p>b. Why do ionic compounds not conduct electricity in solid state but conduct electricity in molten and aqueous state?</p>	3																																								
33	<p>Refractive index of water with respect to air is 1.33 and that of diamond is 2.42.</p> <p>(i) In which medium does the light move faster, water or diamond?</p> <p>(ii) What is the refractive index of diamond with respect to water?</p>	3																																								
Section D																																										
34	<p>Match the following pH values <i>1, 7, 10, 13</i> to the solutions given below:</p> <ul style="list-style-type: none"> • Milk of magnesia • Gastric juices • Brine • Aqueous Sodium hydroxide. <p>Amit and Rita decided to bake a cake and added baking soda to the cake batter.</p>	5																																								

Explain with a balanced reaction, the role of the baking soda. Mention any other use of baking soda.

OR

(i) 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.

(ii) 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.

(iii) Give any one use of Plaster of Paris other than for plastering or smoothening of walls.

35

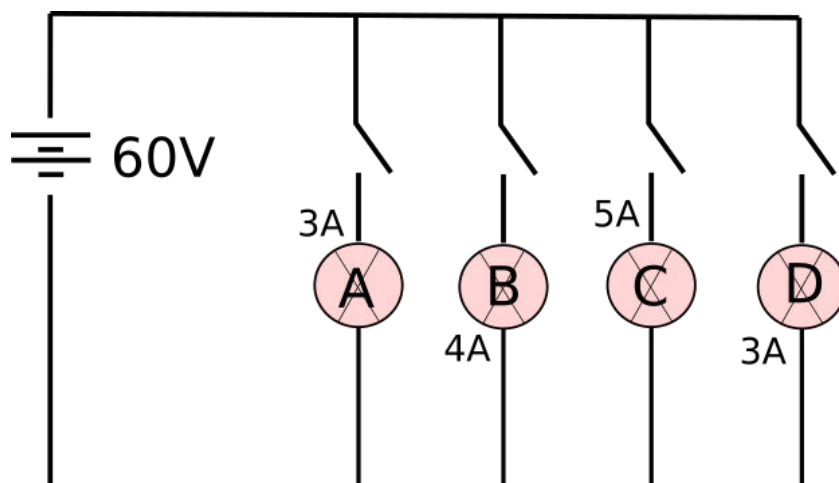
Trace the changes that take place in a flower from gamete formation to fruit formation.

5

36

In the given circuit, A, B, C and D are four lamps connected with a battery of 60V.

5

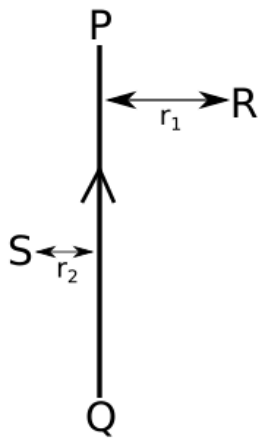


Analyse the circuit to answer the following questions.

- What kind of combination are the lamps arranged in (series or parallel)?
- Explain with reference to your above answer, what are the advantages (any two) of this combination of lamps?
- Explain with proper calculations which lamp glows the brightest?
- Find out the total resistance of the circuit.

OR

PQ is a current carrying conductor in the plane of the paper as shown in the figure below.



- (i) Find the directions of the magnetic fields produced by it at points R and S?
- (ii) Given $r_1 > r_2$, where will the strength of the magnetic field be larger? Give reasons.
- (iii) If the polarity of the battery connected to the wire is reversed, how would the direction of the magnetic field be changed?
- (iv) Explain the rule that is used to find the direction of the magnetic field for a straight current carrying conductor.

**SAMPLE QUESTION PAPER
SOCIAL SCIENCE (CODE 087)
CLASS X – SESSION 2020-21**

Time Allowed: 3 Hours

Maximum Marks: 80

General Instructions :

- i. Question paper comprises five Sections – A, B, C, D and E. There are 32 questions in the question paper. All questions are compulsory.
- ii. Section A – Question no. 1 to 16 are Objective Type Questions of 1 mark each.
- iii. Section B – Question no. 17 to 22 are short answer type questions, carrying 3 marks each. Answer to each question should not exceed 80 words.
- iv. Section C – Question no. 23 to 26 are source based questions, carrying 4 marks each.
- v. Section D – Question no. 27 to 31 are long answer type questions, carrying 5 marks each. Answer to each question should not exceed 120 words.
- vi. Section E – Question no. 32 is map based, carrying 5 marks with two parts, 32.1 from History (2 marks) and 32.2 from Geography (3 marks).
- vii. There is no overall choice in the question paper. However, an internal choice has been provided in few questions. Only one of the choices in such questions have to be attempted.
- viii. In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION A

1X16=16

- 1** Identify the correct statement with regard to ‘The Act of Union -1707’ from the following options. **1**
- A. The British monarchy surrendered the power to English Parliament.
 - B. The British parliament seized power from Ireland.
 - C. The formation of the ‘United Kingdom of Great Britain’.
 - D. The British nation was formed as a result of a war with Scotland and Wales.
- 2** Which of the following treaty recognized Greece as an independent nation? **1**
- A. Treaty of Sevres
 - B. Treaty of Versailles
 - C. Treaty of Lausanne
 - D. Treaty of Constantinople
- 3** Which of the following was the reason for calling off ‘the Non-cooperation Movement’ by Gandhiji? **1**
- A. Pressure from the British Government
 - B. Second Round Table Conference
 - C. Gandhiji’s arrest
 - D. Chauri-Chaura incident
- 4** Fill in the blank : **1**
Business Processes Outsourcing (BPO) is an example of _____ industry in India.
- OR**
- Green Revolution has helped----- industry to expand in different parts of India.
- 5** Choose the correctly matched pair about the Primitive Cultivation in India from the following options: **1**
- A. Dahiya – Madhya Pradesh
 - B. Kumari-Jharkhand



- C. Khil -Andhra Pradesh
- D. Koman- Karnataka

6 Fill in the blank- 1

Barley: Rabi crop, cotton: kharif, _____ : zaid crop.

- A. Wheat
- B. Mustard
- C. Soya bean
- D. Cucumber

7 Identify the soil with the help of the following features. 1

-  Red to brown in colour
-  Sandy in texture and saline in nature
-  Lacks humus and moisture

8 A type of millet rich in iron, calcium, other micro nutrients and roughage is 1

- A. Bajra
- B. Rajma
- C. Jowar
- D. Ragi

9 Population of Sri Lankan Tamils is concentrated in _____ region of Sri Lanka. 1

- A. North and South
- B. North and East
- C. East and West
- D. South and East

10 Define Majoritarianism. 1

OR

Define Ethnicity.

11 Which administrative authority legislates on Residuary subjects? 1

OR

Which administrative authority legislates on Union list?

12 Read the given data and find out which country has most equitable distribution of income. 1

Countries	Monthly Income of Citizens in four countries in 2018					
	Citizen I	Citizen II	Citizen III	Citizen IV	Citizen V	Average
Country A	10500	11200	10800	11000	10700	10,840
Country B	600	5000	600	600	600	1,480
Country C	550	10500	400	7500	2000	4,190
Country D	800	4800	700	5000	750	2,410

- a. Country A
- b. Country B
- c. Country C
- d. Country D

13 Read the information given below and select the correct option -

1

Mohan is an agricultural labourer. There are several months in a year when he has no work and needs credit to meet his daily expenses. He depends upon his employer, the landowner for credit who charges an interest rate of 5 per cent per month. Mohan repays the money by working physically for the landowner on his farmland.

Over the years his debt will –

- A. **Increase** - because of increasing interest and non-payment of monthly amount
- B. **Remain constant** - as he is working for the employer but is repaying less
- C. **Reduce** - as amount equivalent to his salary is being counted as monthly repayment
- D. **Be totally repaid** - as he is repaying the debt in the form of physical labour

OR

Most of the agricultural labourers like Mohan depend upon loans from informal sector. Which of the following statements about this sector is correct –

- A. There are govt. bodies to supervise informal sector
- B. Money lenders ask for a reasonable rate of interest
- C. Cost of informal loans to the borrower is quite high
- D. Money lenders use fair means to get their money back

14 Which one of the following options describe 'Collateral'?

1

- A. Double coincidence of wants
- B. Certain products for barter
- C. Trade in barter
- D. Asset as guarantee for loan

15 Read the given statements in context of 'globalization' and choose the correct option -

1

- A. It is the only way for economic development of the country
- B. Interlinks only production based activities in dispersed locations in the world
- C. It has always given only positive results in all the countries
- D. Leads to spread of technology, cultures and diseases from a region to another

16 In the question given below, there are two statements marked as Assertion (A) and Reason ®. Read the statements and chose the correct option: 1

Assertion (A): Different people have different development goals.

Reason ®: People want freedom, equality, security and respect

Options:

- 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.

SECTION B

(3X6=18)

17 Why did Gandhiji start Non-Cooperation Movement? Explain.

3

- 18 Explain the measures and practices introduced by the French revolutionaries to create a sense of collective identity amongst the French people. 3
- OR**
- “Like Germany, Italy too had a long history of political fragmentation”. Explain.
- 19 Suggest and explain any three ways to protect land from degradation in various states of India. 3
- 20 Describe any three steps taken by the government towards decentralization in the year 1992. 3
- OR**
- Describe any three federal features of Indian democracy.
- 21 Imagine yourself to be XYZ, a member of a women Self- Help Group. Analyse the ways through which your group provides loan to the members. 3
- 22 ‘The issue of sustainability is important for development.’ Examine the statement. 3

SECTION C

- (4x4=16)**
- 23 **Read the source given below and answer the questions that follows:** 4

Following the defeat of Napoleon in 1815, European governments were driven by a spirit of conservatism. Conservatives believed that established, traditional institutions of state and society – like the monarchy, the Church, social hierarchies, property and the family – should be preserved. Most conservatives, however, did not propose a return to the society of pre-revolutionary days. Rather, they realised, from the changes initiated by Napoleon, that modernisation could in fact strengthen traditional institutions like the monarchy. It could make state power more effective and stronger. A modern army, an efficient bureaucracy, a dynamic economy, the abolition of feudalism and serfdom could strengthen the autocratic monarchies of Europe. In 1815, representatives of the European powers who had collectively defeated Napoleon, met at Vienna to draw up a settlement for Europe. The Congress was hosted by the Austrian Chancellor Duke Metternich. The delegates drew up the Treaty of Vienna of 1815 with the object of undoing most of the changes that had come about in Europe during the Napoleonic wars. The Bourbon dynasty, which had been deposed during the French Revolution, was restored to power, and France lost the territories it had annexed under Napoleon. A series of states were set up on the boundaries of France to prevent French expansion in future.

Answer the following MCQs by choosing the most appropriate option

23.1 Which of the following statements correctly describes about European conservative ideology? (1)

- A. Preservation of believes introduced by Napoleon
- B. Preservation of two sects of Christianity
- C. Preservation of socialist ideology in economic sphere
- D. Preservation of traditionalist beliefs in state and society

23.2 Identify the purpose to convene the Vienna of Congress in 1815 from the following options? (1)

- A. To declare competition of German unification
- B. To restore conservative regime in Europe
- C. To declare war against France
- D. To start the process of Italian Unification

23.3. What did conservatives focus on at the Congress of Vienna? Select the appropriate option.(1)

- A. To re-establish peace and stability in Europe
- B. To establish socialism in Europe
- C. To introduce democracy in France
- D. To set up a new Parliament in Austria

23.4 How did the Congress of Vienna ensure peace in Europe? Select the appropriate option. (1)

- A. With the restoration of Bourbon Dynasty
- B. Austria was not given the control of Northern Italy
- C. Laying out a balance of power between all the great powers in Europe
- D. By giving power to the German confederation

24 Read the text given below and answer the following questions.

4

Manufacturing industries not only help in modernising agriculture, which forms the backbone of our economy, they also reduce the heavy dependence of people on agricultural income by providing them jobs in secondary and tertiary sectors. Industrial development is a precondition for eradication of unemployment and poverty from our country. This was the main philosophy behind public sector industries and joint sector ventures in India. It was also aimed at bringing down regional disparities by establishing industries in tribal and backward areas. Export of manufactured goods expands trade and commerce, and brings in much needed foreign exchange. Countries that transform their raw materials into a wide variety of finished goods of higher value are prosperous. India's prosperity lies in increasing and diversifying its manufacturing industries as quickly as possible. Agriculture and industry are not exclusive of each other. They move hand in hand. For instance, the agro-industries in India have given a major boost to agriculture by raising its productivity.

Answer the following MCQs by choosing the most appropriate option

24.1. Manufacturing industries fall in _____ and agriculture in _____. (1)

- A. Primary, Secondary Sector
- B. Secondary, Tertiary Sector
- C. Primary, Tertiary Sector
- D. Secondary, Primary Sector

24.2. Manufacturing provides job opportunities to reduce dependence on agriculture. Identify which sector the following jobs belong to – (1)

Jobs created or promoted by manufacturing industries	Sector
a. Garment production	1.Primary
b. Research & Development	2.Tertiary
c. Banking	3.Secondary
d. Mining	4.Quaternary

Choose the correct option –

- A. a-1, b-2, c-3, d-4
- B. a-3, b-4, c-2, d-1
- C. a-2, b-3, c-1, d-2
- D. a-4, b-1, c-4, d-3

24.3. Which of the following options does not help in modernising agriculture? (1)

- A. Manufacturing farm equipment
- B. Providing unskilled labour force
- C. Supplying fertilizers and pesticides
- D. Producing tube well pumps and sprinklers

24.4. In order to attract foreign manufacturing firms, a country needs to develop - (1)

- A. Agrarian facilities
- B. Cultivable lands
- C. Media facilities
- D. Infrastructure facilities

25 Read the given extract and answer the following questions.

4

In a democracy, we are most concerned with ensuring that people will have the right to choose their rulers and people will have control over the rulers. Whenever possible and necessary, citizens should be able to participate in decision making, that affects them all. Therefore, the most basic outcome of democracy should be that it produces a government that is accountable to the citizens, and responsive to the needs and expectations of the citizens. Some people think that democracy produces less effective government. It is, of course, true that non-democratic rulers are very quick and efficient in decision making and implementation, whereas, democracy is based on the idea of deliberation and negotiation. So, some delay is bound to take place. But, because it has followed procedures, its decisions may be both more acceptable to the people and more effective. Moreover, when citizens want to know if a decision was taken through the correct procedures, they can find this out. They have the right and the means to examine the process of decision making. This is known as transparency. This factor is often missing from a non-democratic government. There is another aspect in which democratic government is certainly better than its alternatives: democratic government is legitimate government. It may be slow, less efficient, not always very responsive, or clean. But a democratic government is people's own government.

Answer the following MCQs by choosing the most appropriate option

25.1. People's right to choose their own rulers is called as the - (1)

- A. Right to Initiate
- B. Right to Plebiscite
- C. Right to Vote
- D. Right to Referendum

25.2. Which of the following options helps in promoting transparency in the governance? (1)

- A. Right to education
- B. Right to information
- C. Right against exploitation
- D. Right to speech and expression

25.3. _____ make/s the government legitimate. (1)

- A. Credibility of politicians
- B. People's movements
- C. Free and fair elections
- D. Holding of powers

25.4. Decisions in a democracy are more acceptable to the people because they are - (1)

- A. Taken swiftly and implemented quickly
- B. Taken by giving privileges to the people
- C. Taken through elites' votes
- D. Taken after following due processes

26 Read the source given below and answer the following questions -

4

Ford Motors, an American company, is one of the world's largest automobile manufacturers with production spread over 26 countries of the world. Ford Motors came to India in 1995 and spent Rs. 1700 crore to set up a large plant near Chennai. This was done in collaboration with Mahindra and Mahindra, a major Indian manufacturer of jeeps and trucks. By the year 2004, Ford Motors was selling 27,000 cars in the Indian markets, while 24,000 cars were exported from India to South Africa, Mexico and Brazil. The company wanted to develop Ford India as a component supplying base for its other plants across the globe.

Answer the following MCQs by choosing the most appropriate option

26.1. The passage given above relates to which of the following options? (1)

- A. Increased employment
- B. Foreign investment
- C. Foreign collaboration
- D. International competition

26.2. According to the given passage, Ford Motors can be termed as a Multi-National Company based on which of the following options? (1)

- A. Production of different types of automobiles
- B. Largest automobile manufacturer in the world
- C. Because of largescale exports of cars across globe
- D. Industrial and commercial ventures across globe

26.3. By setting up their production plants in India, Ford Motors wanted to - (1)

- A. Collaborate with a leading Indian Automobile company
- B. Satisfy the demands of American, African and Indian markets
- C. Tap the benefits of low-cost production and a large market
- D. Take over small automobile manufacturing units in India

26.4. 'Ford Motors' wish to develop Ford India as a component supplying base for its other plants across the globe is an evidence of - (1)

- A. Promoting local industries of India
- B. Merging trade from different countries
- C. Supplying jobs to factory workers in India
- D. Interlinking of production across countries

SECTION D

(5x5=25)

27 How did people belonging to different communities, regions or language groups develop a sense of collective belonging in the nineteenth century India? Explain. 5

OR

Explain the meaning and notion of 'Swaraj' as perceived by the plantation workers. How did they respond to the call of 'the Non - Cooperation movement'? 2
+
3
=
5

28 Describe the role of mass communication in India. 5

OR

Describe the benefits of Roadways.

29 Suggest and explain any five ways to reform Political Parties in India. 5

30 'Power sharing is the essence of a democratic government.' Examine the statement. 5

31 'Tertiary sector is playing a significant role in the development of Indian Economy'. Justify the statement. 5

OR

'Public sector contributes to the economic development of India.' Justify the statement.

SECTION-E

MAP SKILL BASED QUESTION

(2+3=5)

32.1 Two places A and B have been marked on the given outline map of India. Identify them and write their correct names on the lines drawn near them 2

- A. Indian National Congress session at this place in 1927
- B. Mahatma Gandhi organized a Satyagraha Movement at this place for indigo planters

32.2 On the same outline map of India locate and label any **THREE** of the following with suitable Symbols. 3

- a. Rana Pratap Sagar Dam
- b. Namrup Thermal Plant
- c. Bengaluru Software Technology Park
- d. Vishakhapatnam Port
- e. Naraura Nuclear Power Plant

Note : The following questions are for Visually Impaired Candidates only in lieu of Q. No.32. Attempt any FIVE questions. 5

32.1 Name the State where the session of Indian National Congress was held in 1920. 1

32.2 Name the State where the movement of Indigo planters was started. 1

32.3 Name the State where the Jallianwala Bagh massacre occurred. 1

32.4 Name the State where Sardar Sarovar Dam is located. 1

32.5 Name the State where Bhilai Iron and Steel plant is located. 1

32.6 Name the State where Pune Software Technology Park is located. 1

32.7 Name the State where Kochi 'Sea Port' is located. 1

POLITICAL MAP OF
INDIA

