

General instructions:

- 15 minute prior reading allotted for question paper reading.
- The question paper contains THREE sections – Reading, Grammar and Writing and Literature.
- Attempt questions based on specific instructions for each part.

SECTION – A (Reading Skills)

(20marks)

- 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 realise 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, travelling, 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 apologise 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.

Based on your understanding of the passage, answer the questions given below: (10x1=10)

- 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
- 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
- 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
- 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
- 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)
- 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
- The author tries to _____ the readers though this write – up .
(a) rebuke (b) question (c) offer aid to (d) offer advice to
- The message conveyed in the last paragraph of the passage is _____
- What does the author mean when he says, "to get our lives in order"?
(a) To resume our lives (b) To organise our lives
(c) To rebuild our lives (d) To control our lives
- Complete the following with a phrase from paragraph 5

Opinion	Reason
	Move or progress at the same rate as someone

2. Read the passage given below.

1. Mind management is a way to control one’s mind. To do this, we need to be cautious about our thinking process and also need a high level of understanding and meditation as well. Understanding is wisdom – 80 percent of people are knowledgeable, while 20 per cent are wise. Knowledgeable men take sides without reason. They feel sad seeing deprived people but jealous when they see happy people. They work in the guidance of others’ inspiration, take unnecessary responsibility to keep themselves disturbed.
2. A wise person does not stand for or against any idea without concrete reason. He works according to the situation and capacity. He looks at everything intellectually. To him, failure is a stepping stone for future success. So depression and conflict are not seen. Like the phrase ‘Stop, Look, Go’, first one should see, and this needs patience. Meditation is necessary to control and manage mind which then becomes an easy task.
3. Unless we control or manage our mind, it is difficult to achieve success and peace. Psychologists say every interest is first born in the mind as a seed. Then it continues to grow. Later it takes its real form which everybody can see. The interest that first appears in the mind remains weak for the first three minutes and it becomes strong within the next five minutes. All the negative aspects should be deleted within the first three minutes. If not taken out, they would become stronger later and you can never throw them out. After taking control over the mind, we can control passion, interest and unrest. Mind management is essential for a peaceful, successful and healthy life.
4. The age of computers has thrown us on the escalator of aspirations but has robbed us of simple charms like falling asleep. The compulsions of hectic schedules burden the mind and cause stress. However, the joys that elude us can be regained by practising power meditation. It creates tranquillity, simplifies life and cleanses the mind. It helps control indolence, ego and anger and builds confidence and patience. With power meditation, negative thoughts get dissipated and a sense of happiness is achieved.

Based on your understanding of the passage, answer the questions given below: (10x1=10)

- 1) Mind management is essential _____
(i) for a peaceful, successful, and a healthy life (ii) to remain fit
(iii) for a wealthy life (iv) to dominate others
- 2) Traits exhibited by knowledgeable people are _____
(i) they take sides without reason (ii) they are sympathetic to the deprived people
(iii) they are jealous of happy people (iv) all of the above
- 3) Mind management is a way to control one’s mind. (True/False)
- 4) Psychologists say that every ‘interest is first born in the mind as a _____.
- 5) Find the word from the passage which means the same as “based on facts, not on ideas”. (para 2)
- 6) Mind management is a way to _____
(i) control one’s desire (ii) control one’s mind
(iii) control one’s capacity (iv) control one’s knowledge
- 7) A wise person does not stand for or against any idea without any _____
(i) concrete reason (ii) problem (iii) restriction (iv) situation
- 8) Find the word from the passage which is opposite in meaning to ‘Leisurely’ (para- 4)
- 9) Complete the following analogy correctly with a word / phrase from paragraph – 2
aroma : cooking : : hard work : _____.
- 10) List one reason why negative aspects should be deleted within the first three minutes.

SECTION – B (Grammar) (10)

III. Attempt **any ten** of the following questions :

- i) Fill in the blank by choosing the correct option to complete the following :
Very few people _____ loneliness.
a) enjoys b) enjoying c) enjoy d) has enjoyed
- ii) Read the conversation between a student and his teacher. Complete the sentence.
Teacher: Have you done your homework?
Student : Yes, I have
The teacher asked the student _____ his home work, to which , the student affirmed that he had done.
- iii) Select the correct option to fill in the blank
mohan is not keeping well now a days. He _____ see the doctor immediately
a) can b) must c) may d) would
- iv) Select the option that identifies the error and supplies the correction for the following line.
Spending time in your kids brings immediate as well as long term gain to the parents.

Option no	Error	Correction
a)	in	with
b)	brings	bring
c)	long	longer
d)	to	for

- v) Complete the given narrative , by filling in the blank with the correct option.
We went to Guwahati by Rajdhani Express last month. We _____ a trade fair there
a) will visit b) visit c) would visit d) visited
(2)
- vi) Respect the dialogue between Ram and Shyam, by completing the sentence

Ram : How do you feel now?

Shyam: I am better now.

In response to the question about his health, Shyam replied that _____

vii) Identify the error in the given sentence and supply the correction.

Kavin has to help his mother as all their servants were on leave.

Use the given format for your response

Error	Correction

viii) Ram shared some information with Sunil, about an exam. Report Sunil's question how did you write the exam?

ix) Select the correct option to complete the narration of the dialogue between Maanu and Annu

Maanu : Where are you going

Annu : I am going to market

Maanu enquired Annu where she was going Annu replied that _____ to market

a) She is going b) She has been going c) She will be going d) She was going

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

Subject: Preservation of public moments

Dear sir

Through the columns of your esteemed newspaper I would ____ (like) to draw your attention to the deteriorating state of historical monuments in the city.

xi) Identify the error and supply the correction for the following sentence.

The chief minister of Gujarat met the students of SRCC in 30th October, 2022.

Use the given format for your response

Error	Correction

xii) Fill in the blank by choosing the correct option

if you work hard you ____ succeed

a) must b) can c) will d) could

SECTION – B (Creative Writing Skills)

(10)

IV)1. Attempt any one from A and B given below:

(5)

A) You are Tanvi / Shirish, living at Safdarjung Development Area, New Delhi. You are extremely disturbed on reading about attack on old people living alone. Write a letter to the Editor of "The New Indian News" making people sensitive to the problem. Make suggestions to the people living alone and the authorities to ensure that such attacks do not take place.

(or)

B) You are Shammi / Sapna resident of 12 mall Road Agra you have noticed that majority of the water taps in your colony keep on leaking. Also water drips from various joints in supply pipes. All these lead to a big wastage of potable water. Write a letter of complaint to the municipal commissioner, Agra municipal corporation requesting him to get the necessary repairs done.

2. Attempt any one from A and B given below:

(5)

A. 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.

(or)

B. Every four seconds a new baby is born in India while the death ratio is very low. If the present trend continues serious consequences will be seen pressure is growing on the civic amenities. Over population has become a menace. Being an alert citizen, you feel strong about it and intend to spread awareness. In this regard you decide to write a paragraph on, 'Over Population' – A Hazard' in about 150 – 200 words, taking help from the verbal input given below

Slums have sprung up everywhere – pressure is growing on basic amenities – public transport ply overcrowded – long queues in hospitals, at railway stations, shops, gas agencies, bus stands, - problem of unemployment - solution is family planning, youth need to be made aware of dire consequences.

SECTION – C (Literature)

(40marks)

V. Attempt any one of the given extracts:

(5)

1. A) Suddenly she was startled by a voice 'Listen, child', said the voice, 'You should not 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?”

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

Valli felt fairly _____

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.

- 1) I think the conductor should not allowed Valli to board
- 2) I feel that Valli was being irresponsible
- 3) Let’s not forget that Valli was a paying passenger like other
- 4) Oh, come on, she was just out for in adventure. Wasn’t she?

- 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)

1. B) OMEGA: It shall be done, Sir. Remove vitamins. (Crew takes vitamins from boxes on their belts.)

Present vitamins.

(They hold vitamins out in front of them, stiffly.) Swallow vitamins.

THINK-TANK: Excellent. Now, decipher that code.

ALL : It shall be done, Sir. (They frown over the book, turning pages.)

OMEGA : Aha! (brightly)

IOTA : Oho! (brightly)

THINK-TANK: What does it say? Tell me this instant. Transcribe, Omega.

i) Select the option that correctly captures the usage of the word ‘present’ from line 1 of the extract.

- a) Oops received a nice present from Think Tank.
- b) Iota needs to present his opinion firmly.
- c) Omega must focus on the present and leave the past behind.
- d) Oops didn’t know anyone even though a crowd was present. 1

ii). Complete the analogy by selecting the suitable word from the text

frown : smile:: gloomily: _____

iii) All crew members were asked to have vitamins in order to _____

- | | |
|--------------------------------|--------------------------------|
| a) boost their physical energy | b) adapt to their circumstance |
| c) quickly turn all the pages | d) accomplish a specific task |

iv) What did Think Tank want Omega to do when he said ‘Transcribe’?

- | | | | | |
|---------------|--------------|---------------|--------------|---------------------|
| 1) read aloud | 2) translate | 3) make notes | 4) interpret | 5) record reactions |
| a) 1 and 3 | b) 2 and 4 | c) only 3 | d) 1, 4, 5 | |

v) The word which means the same as “to succeed in reading”

2. Attempt any one of the two extracts given :

(5)

2.A) “I heard an old religious man

But yester night declare

That he had found a text to prove

That only God, my dear,

Could love you for yourself alone

And not your yellow hair

i) Identify the option that suits the best to the phrase ‘love you for yourself alone’

- a) to love someone and not anyone else
- b) to show love in solitude
- c) to love someone for the sake of that person only and not because of his appearance
- d) to love that person only

ii) What is the rhyme scheme of the given stanza?

(4)

2. B . But presently up spoke little dog Mustard,
I'd have been twice as brave if I hadn't been flustered
And up spoke Ink and up spoke Blink,
We'd have been three times as brave, we think,
And custard said, I quite agree
That everybody is braver than me.

- VI) Answer any four of the following in about 40 – 50 words each: (4x3=12)
- i) Is Natalya really a love – sick cat as called by her father? If so, why does she quarrel with Lomov? (The proposal)
 - ii) Comment on the tone of Kira Gotami when she said, ‘Pray tell me , sir; Who is it’? (The Sermon at Benares)
 - iii) The poet uses trees as a symbol for women breaking patriarchal notions,. Do you agree? Why not? (The Tree)
 - iv) In what way does the fog spread over the harrbour and the city? (Fog)
 - v) Justify Valli’s desire to ride on the bus (Madam rides the bus)

- VIII) Answer any one of the following in about 100 – 120 words: (6)
- 1) Natalya and Lomov argued about the ownership of Oxen Meadows and the superiority of their dogs in the play, The Proposal. Based on your understanding of the personality traits, develop a conversation, showcasing another argument between them.
- You may begin like this:
- Natalya: Hello, Ivan I wasn't expecting you to be here
- Lomov: Hello, I am equally surprised to see you here
- Natalya: Why are you surprised?

IX) Answer any one of the following in about 100 – 120 words: (6)

i) “No legacy is so rich as honesty”, Matilda lost her friend’s necklace and ruined her life in the process. Justify given quote in the context of the lesson, ‘The Necklace ‘. How do you think the lesson reflects the importance of honesty?

(or)

Although Bholi never got the deserved love, care and acceptance from her family, she is ready to reciprocate like all daughters in Indian society . Discuss the character of Bholi in the light of the above – mentioned. (5)

General instructions:

- i) 15 minute prior reading allotted for question paper reading.
- ii) The question paper contains THREE sections – Reading, Grammar and Writing and Literature.
- iii) Attempt questions based on specific instructions for each part.

SECTION – A (Reading Skills)

(20marks)

1. Read the following passage carefully:

1. Music is perhaps the most popular and widely practised form of Fine Arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is difficult to master and almost impossible to perfect and music is no exception.

2. Nature, it is learnt, has blessed almost two- thirds of the human race with musical ability of some sort. Music has the power to bring out the deepest emotions. In fact, it is a magic medicine and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music or even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn.

3. The desire to sing before an audience is innocent and beautiful and indeed it is perfectly alright to have such a genuine desire. But it is also important to understand that, singing is an intricate art — a highly refined one at that, which requires systematic, prolonged and strict training, to be acceptable. This is an aspect we forget in our keen desire to reach the stage and perform. It is almost like preparing a formal meal for some specially invited guests, without even having learnt and trained in the basics of cooking.

4. These days almost everyone sings and does not stop here. Most of us want to become professional singers, Result : a complete disregard for and ignorance of the training part, as the need is never felt to go through one and the urge to get to the stage and perform overcomes even a little desire to learn, if any. If at all, somewhere along the way one feels the need to gain some knowledge and training, it leads to hurried shortcuts and half-hearted attempts, best described as 'Crash Courses'.

5. It is observed that those who have attained the so called partial success, suddenly feel that they lack the required knowledge and are not learned enough. But it is too late by then. It should be understood here that the stage or a performance brings in a different mindset within the artist. It is always recommended and rightly said, that while on stage, cover the mistakes and weaknesses if any, and get along. But the contrary is true when it comes to acquiring knowledge and during the learning process. While under training, the student is expected to make mistakes but then rectify those mistakes under the supervision and guidance of the teacher. Therefore, it is good to make mistakes and then be corrected during the process of learning as this subsequently makes one flawless and educated. This is a different mind - set. And these two mindsets discussed above, (those of a performer and that of a student) cannot co-exist.

On the basis of your understanding of the above passage, answer the questions that follow:

(1x10=10)

1. Music is perhaps the most popular and widely practiced form of _____.
a) performing arts b) modern arts c) linguistic arts d) fine arts
2. Nature has blessed almost two – thirds of human race with _____.
a) singing ability b) musical ability c) dancing ability d) all of these
3. _____ are brought out by the power of music.
a) Hidden talents b) feelings of joy and contentment c) Deepest emotions d) Hidden desires
4. How can we say that music is a magic medicine?
a) It can make one cry or bring a smile on one's face b) It can heal people
c) It relieves people of their pain d) people forget their problem
5. What is best described as 'crash courses'?
a) Detailed courses b) Dedicated learning
c) Years of learning and practice d) Hurried shortcuts
6. The mind – set of a student of music should be _____.
a) Never to make mistakes b) Always be perfect
c) Cover up the mistakes d) Make mistakes but then rectify those mistake
7. In our keen desire to reach the stage and perform we forget _____.
a) It requires prolonged and strict training b) It requires confidence
c) It requires hard work d) It requires talent
8. While performing on stage an artist must _____.
a) Make mistakes and seek guidance b) cover the mistakes and get along
c) stop singing d) none of these
9. Any form of _____ is difficult to master.
a) fine arts b) dance c) cooking d) all of these
10. "Transcending" in para – 1 means'.
a) drown under b) rise above c) surrender d) fail

2. Read the following passage carefully:

1. Great people are born with the objective to an influence on the society. One such personality, who was so humble and lived his complete life with determination and purpose to achieve certain aims was Ishwar Chandra Vidyasagar. He was not only a great social reformer but also a writer, educator and he worked endlessly to transform the society. He strongly protested against social evils like polygamy and child marriage. He favoured widow remarriage and women's education in India. The Widow Remarriage Act was passed in 1856 making the marriage of widows legal because of his continuous efforts to solve these problems.

2. Ishwar Chandra Vidyasagar refined the way Bengali language was written and taught. His book 'Bornoporichoy' (Introduction to Alphabet) is still used as the introductory text to teach the Bengali alphabet. Thus, he brought about a revolution in the Bengali Education System. Vidyasagar is credited with the role of completely changing the old method of teaching which prevailed in Sanskrit College. As a professor in Sanskrit College, he brought modern outlook into the method of teaching. He included English and Bengali as mediums of learning, besides Sanskrit. He also introduced courses in European History, Philosophy and Science along with Vedic scriptures. He encouraged the student to study these subjects and make the best of both the worlds.

3) Ishwar Chandra Vidyasagar Was a strong advocate of women education. He rightly viewed education as the primary way for women to achieve emancipation from the society's oppression they had to face at that time. He exercised his power to open schools for girls and even outlined suitable curriculum to educate them. He went from door to door, requesting heads of the families to allow their daughters to enrol them 'in schools.

4) Ishwar Chandra was a man who defined his own path of action. He never listened to what other people Said about his work and made decisions based on his own judgement. He was famous for all these qualities. He was also known for his great courage. Vidyasagar had a very soft heart that sympathised with those in trouble. He was easily moved to tears when he saw someone in pain and was always the first one to offer his help to his colleagues and friends in distress. After his death, Rabindranath Tagore said, "One wonders 'how God, in the process of producing forty million Bengalis, produced a man!"

On the basis of your understanding of the above passage answer the questions that follow: (1x10=10)

- Why are great people born?
 - a) to influence the society
 - b) to bring peace to the world
 - c) to unite the people
 - d) to heal the society
- Ishwar Chandra Vidya sagar was a _____.
 - a) painter, dancer, singer
 - b) social reformer, writer, educator
 - c) economist freedom fighter, social reformer
 - d) all of these
- 'Borno Porichoy' is a book on _____.
 - a) Bengali history
 - b) freedom fighters of Bengal
 - c) introductory text to teaching Bengali alphabets
 - d) Bengali Writers
- What changes did Vidya sagar bring about in the method of teaching at Sanskrit college?
 - a) started teaching with songs
 - b) included Bengali and English as learning mediums
 - c) taught through stories
 - d) brought modern outlook into the method of teaching
- How did Ishwar Chandra vidya sagar promote women education?
 - a) Wrote books for girls
 - b) opened schools for girls
 - c) appointed women teachers
 - d) all of these
- How can we say that Vidya sagar was a soft – hearted man?
 - a) sympathized with those in trouble
 - b) built hospitals for people
 - c) engaged in charity
 - d) looked after the old and sick
- 'One wonders how God', in the process of producing forty million Bengalis, produced a man"! These words were said by _____.
 - a) Pandit Jawaharlal Nehru
 - b) Rabindranath Tagore
 - c) Ishwar Chandra Vidyasagar
 - d) Bankim Chandra chatterjee
- Which of the following statement is true?
 - a) Ishwar Chandra Vidya Sagar always paid attention to what people had to say about his work
 - b) Ishwar Chandra Vidya Sagar made decisions based on his own judgement
 - c) Ishwar Chandra Vidya Sagar was an idealist
 - d) Ishwar Chandra Vidya Sagar was a great economist
- The word which means the same as 'change' in para – 1 is _____.
 - a) transform
 - b) favoured
 - c) determination
 - d) protested
- The synonym of the word 'impression' in para – 1 is _____.
 - a) humble
 - b) reformer
 - c) polygamy
 - d) influence

SECTION – B (Grammar)

(10marks)

III. Attempt any **ten** of the following questions:

i) Fill in the blank by choosing the correct option to complete the 'flora and fauna' report.

There is so much to learn and it is a _____ source of delight to know more about the flora and fauna around.

- a) Constant
- b) Consistent
- c) Varied
- d) Contingent

ii) Read the conversation between the gardener and Dev and complete the sentence by reporting Dev's replay correctly.
Gardener: Did you water the plant today?
Dev: no, but i will, today
The gardener enquired Dev if he watered the plant that day, to which Dev replied negatively and added

(2)

- iii) Select the correct option for filling the blank in the given line:
we should ____ the surroundings clean to avoid the breeding of mosquitoes.
a) keep b) kept c) will keep d) is keeping
- iv) Select the option that identifies the error and supplies the correction for the following line, from a news report.
According to a research , children of a involved parent are more efficient and able
- | Option | error | correction |
|--------|----------|------------|
| A | children | child |
| B | involved | involve |
| C | a | an |
| D | are | were |
- v) Complete the given description by filling the blank with the correct option:
The caves of Ajantha and Ellora ____ the magnificent works of a sculptor
A) is B) are C) were D) was
- vi) Fill in the blank by using the correct form of the word in the bracket for the given portion of a letter.
Subject: need for promoting Healthy Eating Routine
Dear Madam
This is with reference to poster ____ (bear) the message of “Crash diet” being posted around our school premises
- vii) Report the dialogue:
Reena: Do you know how to swim?
Suba: Yes, i know, i have learnt it during this summer vacation
In response to Reena’s question. Suba replied that _____
- viii) Identify the error in the given sentence and supply the correction.
A group of scholar is meeting in Jaipur on February 10 to discuss the issue of global warming
- ix) Harish shared some information with Rajesh, about his trip to New York Report his statement
i am going to New York in August .
- x) Fill in the blank by choosing the correct option to complete the slogan given by “SAVE ENVIRONMENT’.
SAVE THE EARTH, WE _____ NOWHERE ELSE TO GO
A) WILL B) HAVE C) HAS D) NEED
- xi) Select the correct option to complete the narration of the dialogue between Naha and Hema
Naha: I’ m really looking forward to the class picnic tomorrow
Hema: Yes, after a long time we will be meeting our friends and teachers
Naha: and Hema were excited for the picnic and Hema shared her enthusiasm by saying _____
- xii) Identify the error on a shop’s hoarding and supply the correction.
Tastes like a million dollars. Only cost one (use the given format for your response).

Error	correction

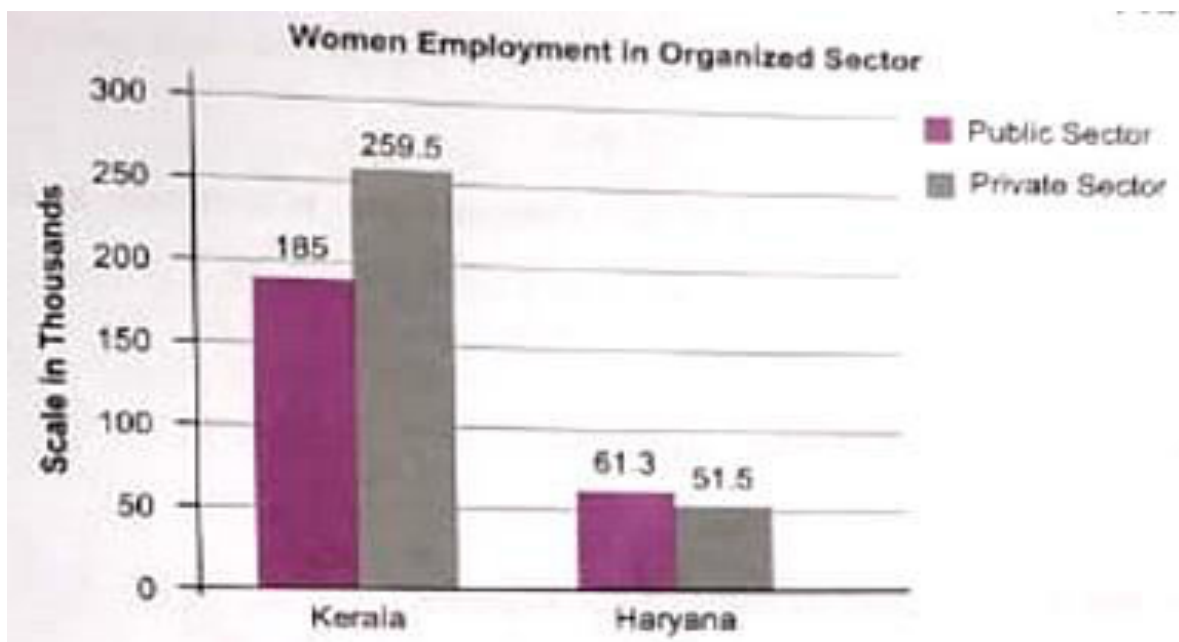
SECTION – B (Creative Writing Skills) (10marks)

- IV) Attempt **any one** from A and B given below: (5)
- A) You are nalini, Hostel Warden of ABC Matric School. Pune. Write a Letter to the Sales Manager, Bharat Electronics and Domestic Appliances Park Street, Mumbai, Placing an Order for a Few Fans, Microwave Ovens and Geysers that You Wish to Purchase for the Hostel. Also Ask for the Discount Permissible on the Purchase (or)
- B. You are Milena / Milan of 24, Raj Nagar, Jaipur, Write a letter to the G M J.T.C. complaining about inadequate bus service in your area and requesting him to take urgent steps in this matter.
- V) Attempt **any one** from A and B given below: (5)
- A) Colours play a very important role in our life. They have a healing power also. Read the pie chart given below and write an analytical paragraph on colour therapy in 100 – 120 words.



(or)
(3)

B) A survey was conducted to know about the presence of women in public and private sectors India in the present time of women employment .
Analyse the bar graph given here and write an Analytical paragraph in 100 – 200 words



SECTION – C (Literature)

(40marks)

V. Reference to the context:

(10marks)

1. Attempt ANY ONE of two extracts given :

(5marks)

A) "Her first journey-what careful, painstaking, elaborate plans she had to make for it; she had thriftily saved whatever stray coins came her way, resisting every temptations to buy peppermints, toys, balloons and the like, and finally she had saved a total of sixty paise. How difficult it had been, particularly that day at the village fair, but she had resolutely stifled a strong desire to ride the merry-go-round, even though she had the money.

i) Who does 'her' refer to in the passage?

- a) the old lady b) The young lady c) Valli d) Valli's mother

ii) Where was her first journey made to ?

- a) to the park b) to the circus c) to the mall d) till the next town

iii) She had resisted all temptations to save ____ for a bus ride.

- a) things b) toys c) money d) time .

iv) Which word in the passage means the same as a 'Swing'?

- a) painstaking b) elaborate c) thriftily d) merry – go round

v) The one side fare to the town was ____ paise.

- a) thirty b) sixty c) fifty d) forty

(or)

B) "Both young and old, both those who are fools and those who are wise all fell into the power of death, all are subject to death of those who, overcome by death, depart from life, a father cannot save his son, nor kings men their relation.

Mark while relatives are looking on and lamenting deeply, one by one mortals are carried off, like an ox that is led to the slaughter. So the world is afflicted with death and decay, therefore the wise do not grieve, knowing the terms of the world.

i) Who are carried off one by one?

- A) Rocks B) Mortals C) Immortals D) stones

ii) Who has accepted the truth that death is common to all?

- A) The wise B) The foolish C) The literates D) The illiterates

iii) Choose the option that tells who are subject to death

1. Both young and old

2. Immortals

3. Those who are foolish

4. Those who are wise

5. Both foolish and wise

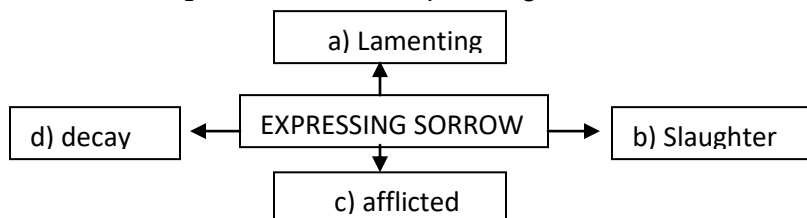
A) Option 1 and 2

B) Option 1 and 3

C) Option 3 and 4

D) Option 1 and 5

iv) Which of the following words means 'expressing sorrow'?



(4)

v) Who is the speaker here?

A) Kisa Gotami

b) a villager

c) Gautama Buddha

d) an old man

VI. Attempt **ANY ONE** of two extracts given:

(5marks)

A. "Ink trickled down to the bottom of the household,
And little mouse Blink strategically mouse holed.
But up jumped Custard, snorting like an engine,
Clashed his tail like irons in a dungeon,
With a clatter and a clank and a jangling squirm,
He went at the pirate like a robin at a worm"

i) Which option lists the quotes that support the ideas in the extract?

- 1) Fear makes strangers of people who would be friends.
2) If you're brave enough to start, you're strong enough to finish.
3) Courage doesn't mean you don't get afraid. Courage means you don't let fear stop you.
4) You get in life what you have the courage to ask for
5) Fear has a large shadow, but he himself is strong.

- A) 1 and 5 B) 2, 3 and 4 C) 2 and 3 D) 1, 3 and 5

ii) What is the poet's purpose of using the onomatopoeic words given in the extract?

- A) It is to emphasize on the might and boldness of Custard.
B) It is to introduce the character Custard to the readers.
C) It is to impress upon the readers that Custard was ready.
D) It is to make Custard bold enough to face the situation.

iii. Pick an option that best fits the usage of the word 'trickled' as used in the extract.

- A) The water trickled down the tap and filled the trough.
B) Students trickled into the classroom as the teacher entered.
C) Tears trickled down her cheeks as she heard the sad news.
D) His enthusiasm for the task slowly trickled away.

iv. Select the option that fits with the reaction of the characters in the context of the extract.

Ink: terrified : : Blink : i) _____

Pirate: ii) _____ :: Custard: undaunted

A) i) shocked ii) displeased

B) (i) frightened (ii) wondered

C) (i) upset (ii) dazed

D) (i) frightened (ii) shocked

v) Pick the option that does not display a simile from the extract.

a) Clashed his tail like irons...

b) ...at the pirate like a robin at a worm.

c) ...Custard, snorting like an engine...

d) ...trickled down to the bottom

B) "“Never shall a young man,
Thrown into despair
By those great honey - coloured
Ramparts at your ear,
Love you for yourself alone
And not your yellow hair."

i) Whom are these lines addressed to ?

A) You (Reader)

B) Anne Gregory

C) Poet

D) Someone unknown

ii) What would throw a young man into despair?

A) beautiful dress

B) Honey coloured hair

C) Serious problem

D) Carelessness

iii) What is the rhyming scheme of the above stanza?

A) abcbdb B) abccdb C) abcabc D) aabbcc

iv) Identify the poetic device used in line – 3 of the above extract.

A) Alliteration B) Metaphor C) Personification D) Smile

v) Find the word in the passage which is 'compared to wall'

A) Protected B) Covered C) guarded D) ramparts

VI) Answer **any four** of the following in about 40 – 50 words each: (4x3=12)

i) How does Lomov come to Chubukov's house? For what does he come? How is he received?

ii) How did Kisa Gotami realise that life and death is a process?

iii) How did Valli save money for her first journey? Was it easy for her?

iv) Where are the trees? Why are they kept there? What happens to the house when the trees move out of it?

v) What does the poet say the boy is learning from the loss of the ball? Explain.

VII. Answer **any two** of the following in about 40 – 50 words each: (2x3=6)

i) Why did Matilda's husband go out into the cold night, minutes after returning from the ball? Was he successful in his purpose?

ii) How did Bholi's teacher play an important role in changing the course of her life?

iii) Noodle avoids offending Think – Tank but at the same time he corrects his mistakes. How does he manage to do that?

(5)

VIII) Answer **any one** of the following in about 100- 120 words: (6m)

i) Nature has many wonders that people take for granted and never pay attention to. How is the 'Fog' different from his perspective?

(or)

ii) The People and surroundings are a great book to learn Valli in the lesson 'Madam Rides The Bus' learner a lot from others. Mention the traits of her character which help her to learn from her surroundings.

IX. Answer **any one** of the following in 100 – 120 words: (6m)

i) School education turned Bholi from a dumb girl into a bold girl. How did she save her father from a huge expense and become his support in his old age?

(or)

ii) M. Loisel was a loving husband. He tried every method of finding the necklace but to no avail. He didn't blame Matilda for the loss even after that.

Imagine yourself as the writer of the story "The Necklace" and develop a conversation between M. Loisel and Matilda if Loisel gets angry on her at her carelessness for losing the necklace.

General instructions:

- i) 15 minute prior reading allotted for question paper reading.
- ii) The question paper contains THREE sections – Reading, Grammar and Writing and Literature.
- iii) Attempt questions based on specific instructions for each part.

SECTION – A (Reading Skills)

(20marks)

I. Read the passage given below:

1) Have you ever failed at something so miserably that the thought of attempting to do it again was the last thing on your mind?

2) If your answer is yes, then you should understand that you are not a robot. Unlike robots, we human beings have feelings, emotions, and dreams. We are all meant to grow despite our circumstances and limitations. Flourishing and trying to make our dreams come true feels great when life goes our way. But what happens when it does not? What happens when you fail despite all your hard work? Do you stay down and accept defeat or do you get up again? If you tend to persevere and keep going, you have what experts call 'grit'.

3) Falling down or failing is one of the most agonising, embarrassing, and scary human experiences. But it is also one of the most educational, empowering, and essential parts of living a successful and fulfilling life. Did you know that perseverance (grit) is one of the seven qualities that has been described as the key to personal success and betterment in society? The other six are curiosity, gratitude, optimism, self-control, social intelligence, and zest. Thomas Edison is an example of grit for trying more than 1,000 times to invent the light bulb. If you are reading this with the lights on in your room, you will realise the importance of his success. When asked why he kept going despite hundreds of failures, he merely stated that they had not been failures, they were hundreds of attempts toward creating the light bulb. This statement not only revealed his grit but also his optimism for looking at the bright side.

4) Grit can be learnt to help you become more successful. One of the techniques that help is mindfulness. Mindfulness is a practice that makes an individual stay at the moment by bringing awareness of his or her experience without judgement. This practice has been used to quieten the noise of fears and doubts. Through this simple practice of mindfulness, individuals have the ability to stop the self-sabotaging downward spiral of hopelessness, despair, and frustration.

5) What did you do to overcome the negative and self-sabotaging feelings of failure? Reflect on what you did, and try to use those same powerful resources to help you today.

Based on your understanding of the passage answer the questions given below:

(10x1=10)

i) **The reason why you are not a robot is that.....**

- | | |
|--------------------------------|---|
| a) You fail miserably at tasks | b) Failure and success can affect your emotions |
| c) You work hard | d) You have limitations |

ii) What qualities are the key to personal success and betterment in society?

iii) Choose the option that best conveys the message in – 'quieten the noise of fears and doubts'.

- a) shun all the anxiety and be mindful of your capabilities
- b) hear the sound of chaos and confusion in your mind
- c) focus on what is wrong with you all the time
- d) lower down the volume of all the noises in the surroundings

iv) **What is the tone of the following context: "Falling down or failing is one of the most... educational,**

empowering, and essential parts of living a successful and fulfilling life."

- | | | | |
|-------------|---------------|---------------|-----------|
| a) Humorous | b) Optimistic | c) Horrifying | d) Solemn |
|-------------|---------------|---------------|-----------|

v) **was created after many attempts.**

- | | | | |
|----------------|---------------|------------|---------------|
| a) electricity | b) light bulb | c) current | d) tube light |
|----------------|---------------|------------|---------------|

vi) Select the option with the underlined words that can suitably replace the word "despair" in para – 4

- a) my car has been in a state of "disrepair" for a while now, so i must get it checked.
- b) The little kid was in "distress" to find out that all the chocolates have already been eaten
- c) Those who were not present at the meeting will be "demanding" an apology to the panel
- d) It is hard to believe sometimes that he can have such "disregard" for his family

vii) A metaphor is a figure of speech that indirectly refers to one thing by mentioning another, which is not meant to be taken literally. From the options given below, select a metaphor for 'optimism – para – 3.'

- | | | | |
|---------------------------|--------------------|-------------------------------|-----------------------|
| a) Spiral of hopelessness | b) fulfilling life | c) Looking at the bright side | d) stay at the moment |
|---------------------------|--------------------|-------------------------------|-----------------------|

viii) Select the qualities from para – 3 that the author wants us to imbibe being

- | | | | | |
|---------------|---------------|---------------|----------------|--------------|
| 1) grateful | 2) pacifistic | 3) optimistic | 4) determinate | 5) sarcastic |
| a) 1, 3 and 4 | b) 3, 4 and 5 | c) 1, 2 and 4 | d) 2, 4 and 5 | |

ix) What does the author advise in para – 5?

- | | |
|---|--|
| a) to be socially intelligent and knowledgeable | b) Relaxing after a day of hard work |
| c) sharing life lessons with one another | d) Introspecting failure and moving on |

x) complete the following sentence by replacing the meaning of the idiom "for looking at the bright side" in para – 3

The patient opened his eyes and looked up at the doctor with curiosity and _____

II. Read the passage given below:

1. What makes a place sacred? A place where meditation is practised over many years automatically acquires certain powers. The place gets charged with the energy and vibrations from peaceful thoughts. Depending on the intensity of meditators, the sanctity and power of a particular place can thus remain charged, exuding powerful vibrations, for thousands of years. The Parshvanath Hills is one such place. Twenty-two of the 24 Jain Tirthankaras attained nirvana on this hill, and these enlightened persons were separated by thousands of years.
2. When a Tirthankara leaves his body, the equivalent of an atomic explosion takes place. The energy that united body and soul is released. This power is dispersed on the hill. The whole atmosphere and surroundings get surcharged. What the Parshvanath Hills are to the Jains, the Ganga is to the Hindus.
3. Lord Krishna said, "Among the armed, I am like Ram; I am like a crocodile among fish and the Ganga among rivers. Dear Arjuna, I am the beginning, the end and even the middle of existence". The symbolism of the Ganga is worth understanding. Take away the Ganga from India and all the literature of India will become incomplete. Take away the Ganga and the names of many sages will perish; the spirit of pilgrimage will be lost. The Ganga has become the symbol of our collective spirit.
- 4 What is so special about the Ganga? There are rivers that are much longer, wider, larger, than the Ganga on this planet – the Brahmaputra, the Amazon, the Nile and the Hwang Ho... There is something unique about the Ganga that is not found in any of these great rivers: despite all the pollutants being pumped into the Ganga, it has somehow managed to maintain its relative purity. Chemically, it contains extraordinary properties — its water does not putrefy or deteriorate even if kept bottled for long, unlike the water from other rivers. It is interesting to know that the water of the Ganga has properties different from those of other rivers but which seem to undergo a mystical change once they flow into the Ganga's waters. This is a mystery that even science has not been able to understand, as yet.

Based on your understanding of the passage answer the questions given below:

(10x1=10)

Select the appropriate option to fill in the blanks :

- i) The Ganga symbolizes
 - i) purity ii) Pollution iii) faith iv) disbelief iv) collective spirit
 - a) 1, 2 and 3 b) 1, 3 and 5 c) 2, 3 and 4 d) 3, 4 and 5
- ii) Based on the information para – 1, state how does a place become sacred
- iii) Select the correct option to complete the following sentence.
Parshvanath Hills get surcharged by _____
 - a) the power of God b) an atomic explosion
 - c) the energy of atmosphere d) the power released by Tiruthankaras
- iv) State whether the following sentence is true or false
Water of the Ganga has properties different from those of other rivers
- v) Complete the analogy from para – 2
What the Parshvanath Hills are to the Jains, _____
- vi) Find the word from the passage which means the same as "to become worse" in para – 4.
- vii) Identify the field on which the writer has focused his views in the given passage
 - a) Religious b) Scientific c) Historical d) Fantasy
- viii) Select the option which is opposite in meaning to the underlined word (para – 1)
The ignorant were trained by the volunteers
 - a) charged b) sanctity c) powerful d) enlightened
- ix) Simile is a figure of speech where comparison is made between two things using "like" and "as" .
Identify and list out the "smile" used in para – 3.
- x) List any two unique things about river Ganga. (para – 4)

SECTION – B (Grammar)

(10marks)

III) Attempt any Ten of the following questions:

i) Fill in the blanks by choosing the right option:

Every boy and girl _____ in the class today

- a) are present b) is present c) have present d) had present

ii) Select the option that identifies the error and supplies the correction for the following line:

The status of woman in India has undergone a gradual change

Error	correction
a) woman	women
b) in	at
c) has	had
d) a	the

iii) Report the dialogue : by completing the sentence:

Grish: I have invited my friends for dinner

Nidhi: I ' ll invite my friends also Grish told Nidhi that _____ Nidhi replied that she would invite her friends also.

iv) Select the correct option to complete the narration of the dialogue

Doctor: How are you feeling now?

Raghu : Much better , sir

The doctor asked Raghu how he was feeling then. Raghu replied that _____.

- a) I am feeling much better b) I was feeling much better
c) he is feeling much better d) he was feeling better

v) Select the correct option to fill in the blank for the given line:

They _____ into their cars and drove away

- a) has got b) have got c) gets d) got

vi) Identify the error and supply the correction in the given sentence, from Road safety Rules keep a safe distance on the vehicle ahead

error correction

vii) Complete the given description, by filling in the blank with the correct option:

Last year summer vacation, I visited my cousin's village and i _____ many interesting things there.

- a) experience b) has experienced c) experienced d) experiences

viii) The teacher enquired Anish about his being late to school. Report the teacher's question:

Why are you late today?

ix) Identify the error in the following slogan in education and supply the correction:

you has to learn if you want to earn

error correction

x) Fill in the blank and complete the following portion of a complaint letter.

Respected sir,

Through the columns of your newspaper, i _____ like to draw the kind attention of the concerned authorities towards the miserable living conditions in slums.

xi) Fill in the blank by choosing the correct option:

I _____ have been there if i had the address

- a) would b) could c) should d) might

xii) Report the dialogue given by Maria:

please lend me a pen

SECTION – B (Creative writing skills)

(10marks)

IV. 1. Attempt any one from A and B given below:

(5)

A) You are Rohit/Reena of 1/117, Kailash Colony, Mathura. You are preparing for your X Class Board examination, but due to frequent electricity cuts, it is becoming difficult for you to concentrate. Write a letter in 100 – 120 words to the Editor, "The National News" highlighting the problem.

(or)

B)

Advertisement

Institute of Hospitality Management F-F, Junk Road New Delhi
A few seats are available in House keeping Course ,
Contact immediately for further details

You are Ramesh / Radhika 12A, fort road, Agra. You read to above advertisement in a local daily. You want to pursue the course in house keeping write a letter director of the Institute inquiring about the duration of the course, fees and other details

2. Attempt any one from A and B given below:

(5)

A) Money is considered everything and the most important in every individual's life. It is mainly because that people believe that with money, one can buy anything and everything which he or she wants. But this belief is purely wrong because money can't buy you each and everything and mainly true friends , love, happiness and so on .

Write a paragraph in 100 – 120 words to analyse the given argument whether money is the most important or not.

(or)

B) Write as analytical paragraph about 120 words to be used for the counter – view section on the following topic

“ Science and technology development has helped us in all walks of life”

Science and technology development are useful for mankind.

- has made life comfortable and happy
- life being lengthened
- increased agricultural production
- world it brought together closer through various safer and faster communication and transport systems
- modes of entertainment

Note: Convert the above points into their opposite and create an analytical paragraph

SECTION – C (Literature)

(40marks)

V. Reference to the context:

(10m)

1. A. Attempt any one of the extracts given:

(5x1=5)

Chubukov : [aside] He's come to borrow money. Shan't give him any!

Lomov: You see, Honoured Stepanitch ... I beg pardon Stepan Honouritch ... I mean, I'm awfully excited, as you will please notice In short, you alone can help me though I don't deserve it, of course and haven't any right to count on your assistance ... (The Proposal)

- i) What is the first thought of Chubakov when he sees Lomov?
1) Lomov had come with an excuse 2) Lomov had come to meet him
3) Lomov had come to barrow money 4) Lomov had come to argue
a) 1 and 4 b) 1 and 3 c) 2 and 3 d) 2 and 4
- ii) Select the option which displays 'awfully' as in the extract.
a) I am awfully glad you are my sister b) The team played awfully and lost the football match
c) She looked awfully sad in the patched dress d) I did awfully miserable in the exam
- iii) What purpose has Lomov come for?
a) To borrow money b) To fight with Natalya
c) To ask apology d) To propose Natalya
- iv) Who is the writer of this play?
a) Batty Renshaw b) Anton Chokow c) Ogden Nash d) Robin Klein
- v) Which word in the extract means "depend"?
a) Deserve b) Assistance c) Count on d) Notice
(or)

B) OOP: I haven't a clue. I've been to seven galaxies, but I've never seen anything like this. Maybe they're hats. (He opens a book and puts it on his head.) Say, maybe this is a haberdashery!
OMEGA: (bowing low) Perhaps the Great and Mighty Think-Tank will give us the benefit of his thought on the matter.
THINK-TANK: Elementary, my dear Omega. Hold one of the items up so that I may view it closely. (Omega holds a book on the palm of her hand.) Yes, yes, I understand now. Since Earth creatures are always eating, the place in which you find yourselves is undoubtedly a crude refreshment stand.
OMEGA: (to Iota and Oop) He says we're in a refreshment stand.
OOP: Well, the Earthlings certainly have a strange diet.

- i) **Why did Omega bow low before Think-Tank?**
a) As a mark of respect and recognition of supremacy.
b) To flatter and appease the character.
c) As a sign of submission and understanding of his strength.
d) To curry favour and goodwill from the character.
- ii) **Choose the option that associates the person to a haberdashery.**
a) Jagdeep is a primary school teacher who teaches English.
b) Tanishq is a tailor who makes garments for men only.
c) Falguni is a chemist who manufactures her own medicine.
d) Asma is an engineer who works on designing space stations.
- iii) **Choose the option that explains what Think-Tank meant by saying Elementary, my dear Omega.**
a) "It's simple general knowledge, Omega."
b) "It's something that a primary school person won't understand, Omega."
c) "It's quite obviously understandable, Omega"
d) "It's a little more than complicated, Omega."
- iv) Identify the writer of this play.
a) Claire Boiko b) Anne Frank c) Robert frost d) Walt Whitman
- v) **Earth inhabitants are Earthlings and those from Mars are Martians, what are the inhabitants of Venus**
a) Venusites b) Venatians c) Venings d) Venusians

2. Attempt any one of the extracts given: (5x1=5)

A. All night the roots
work to disengage themselves from the cracks
in the veranda floor.
The leaves strain toward the glass
small twigs stiff with exertion
long - cramped boughs shuffling under the roof
like newly discharged patients
half-dazed, moving to the clinic doors.

- i) The roots are working all night to get _____
a) water b) sunlight c) air d) freedom
- ii) What is the figure of speech in "Like newly discharged patients"?
a) Smile b) metaphor c) Alliteration d) Personification
- iii) What is the adverb form of 'patient'?
a) Patience b) Patiently c) Patiencefully d) Patientance
- iv) State whether the following statements in True or False.
The small twigs apply to much pressure to free themselves
- v) Identify the poet:
a) Robert Frost b) Walt Whitman c) Adrienne Rich d) Carolyn Wells

2.B. The fog comes
on little cat feet
It sits looking

over harbour and city
on silent haunches
and then moves on.

- i) What does the poet mean by 'little cat feet'?
- a) small feet like that of the cat
 - b) little soft feet of the cat which leaves marks in the home
 - c) little marks which a cat leaves behind in the sand
 - d) The silent and careful steps of the fog which do not eat anyone know of its arrival
- ii) The poetic device used in second line is _____
- a) simile
 - b) alliteration
 - c) metaphor
 - d) Allusion
- iii) What is 'it' in the above stanza?
- a) fog
 - b) cat
 - c) harbour
 - d) city
- iv) The word 'haunches' means:
- a) legs
 - b) eyes
 - c) thighs
 - d) knees
- v) Identify the rhyme scheme of the poem:
- a) ababab
 - b) No rhyme scheme
 - c) aababa
 - d) aabaab

VI. Answer any four of the following in about 40 – 50 words each: (4x3=12)

- i) Why was Kisa Gotami sad? What did she do in her hour of grief?(The sermon at Benares)
- ii) Imagine you come across a little girl travelling alone in a bus. Write down any two questions you would ask her and your reasons for asking them. (Madam Rides the Bus)
- iii) But Custard cried for a nice safe cage. ' Who is Custard? Why did he cry for a 'nice safe cage'? (The tale of custard the Dragon)
- iv) What does the religions man tell the poet about God's love for man? (For Anne Gregory)
- v) Do you think Chubukov is a good father? Justify your opinion based on your reading of the text. (The proposal)

VII. Answer any two of the following in about 40 – 50 words each: (2x3=6)

- i) Why do you think M. Loisel was a loving husband? (The Necklace)
- ii) How did Bholi find her school teacher different from her family members?
- iii) How does Think – Tank explain the books to his probe crew? (The Book that saved the Earth).

VIII. Answer any ONE of the following in about 100 - 120 words each: (1X6=6)

- i) Once we decide to achieve something, so many difficulties come in our way. With focused attention we can make that achievement. How did Valli succeed in fulfilling her desire of riding a bus?(Madam Rides the Bus)
- ii) ""The life of mortals in this world is troubled and brief and combined with pain" With this statement of the Buddha, find out the moral value that Kisa Gotami learnt after the death of her child. (The Sermon at Benares)

IX. Answer any ONE of the following in about 100 - 120 words each: (1X6=6)

- i) As Matilda, write a diary entry of your feelings after you came to know that the necklace was a fake one. (The Necklace) (or)
- ii) Bholi is a child different from others. This difference makes her an object of neglect and laughter .Elaborate
- *****

General Instructions:

- (i) This Question Paper has 5 Sections A – E.
- (ii) Section A has 20 MCQs carrying 1 mark each
- (iii) Section B has 5 questions carrying 02 marks each.
- (iv) Section C has 6 questions carrying 03 marks each.
- (v) Section D has 4 questions carrying 05 marks each.
- (vi) Section E has 3 case based integrated units of assessment (04 marks each) with sub – parts of the values of 1, 1 and 2 marks each respectively.
- (vii) All questions are compulsory. However, an internal choice in 2 questions of 5 marks, 2 questions of 3 marks and 2 questions of 2 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E
- (viii) Draw neat figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.

SECTION – A

(1 X 20 = 20)

1. Two dice are thrown at a time. What is the probability that numbers shown are equal?
 (a) $\frac{5}{36}$ (b) $\frac{1}{3}$ (c) $\frac{1}{6}$ (d) $\frac{2}{9}$
2. One card is drawn from a well – shuffled deck of 52 cards. What is the probability of getting a face card?
 (a) $\frac{1}{13}$ (b) $\frac{4}{13}$ (c) $\frac{2}{13}$ (d) $\frac{3}{13}$
3. A bag contains 20 five rupee coins, 50 two – rupee coins and 30 one – rupee coins. If a coin is taken out at random, the probability that it is not a two – rupee coin is
 (a) $\frac{1}{2}$ (b) $\frac{2}{3}$ (c) $\frac{1}{4}$ (d) $\frac{3}{4}$
4. Mode of a given data is 27.76 median is 26.67. Mean is
 (a) 24.4 (b) 26.4 (c) 23.4 (d) 25.4
5. The mean of 16 observations is 16. If one observation 16 is deleted and three observations 5, 5 and 6 are included, then find the mean of the final observations
 (a) 16 (b) 15.5 (c) 13.5 (d) None of these
6.

x	2	4	6	8
f	3	5	6	y

The mean of the above data is 5.5. Find the missing frequency 'y' in the above distribution

- (a) 6 (b) 8 (c) 15 (d) 11

7. The class marks of a frequency distribution are 6, 10, 14, 18, 22, 26, 30. Find class size.

- (a) 6 (b) 10 (c) 4 (d) 8

8. For the following distribution

Marks	Below 10	Below 20	Below 30	Below 40	Below 50	Below 60
No. of students	3	12	27	57	75	80

The median class is

- (a) 10 – 20 (b) 20 – 30 (c) 30 – 40 (d) 40 – 50

9. A car is moving with a speed of 22 decimetre per second. If its wheel performs 7 revolutions per second, then the diameter of the wheel is

- (a) 0.3 m (b) 0.2 m (c) 1.5 m (d) 0.1 m

10. The ratio of the length of a rod and its shadow is 1 : 1. The angle of elevation of the sun is

- (a) 30° (b) 45° (c) 60° (d) 90°

11. The tops of two poles of heights 20 m and 14 m are connected by a wire. If the wire makes an angle of 30° with the horizontal, then the length of the wire is

- (a) 8 m (b) 10 m (c) 12 m (d) 14 m

12. A ladder 15 m long just reaches the top of a vertical wall. If the ladder makes an angle of 60° with the wall, then the height of the wall is

- (a) $15\sqrt{3}$ m (b) $\frac{15\sqrt{3}}{2}$ m (c) $\frac{15}{2}$ m (d) 15 m

13. Area of a sector of angle θ (in degrees) of a circle with the radius R is

- (a) $\frac{\theta}{180^\circ} \times 2\pi R$ (b) $\frac{\theta}{180^\circ} \times \pi R^2$ (c) $\frac{\theta}{360^\circ} \times 2\pi R$ (d) $\frac{\theta}{720^\circ} \times 2\pi R^2$

14. The area of a quadrant of a circle where the circumference of circle is 176 m , is
 (a) 2464 m^2 (b) 1232 m^2 (c) 616 m^2 (d) 308 m^2
15. The perimeter of a sector of a circle of radius 5.2 cm is 16.4 cm . The area of the sector is
 (a) 15.1 cm^2 (b) 15.5 cm^2 (c) 15.6 cm^2 (d) 15.9 cm^2
16. The radius (in cm) of the largest right circular cone that can be cut from a cube of edge 4.2 cm is
 (a) 2.1 m (b) 4.2 m (c) 8.1 m (d) 1.05 m
17. A sphere and a cube have equal surface areas. The ratio of the volume of the sphere to that of cube is
 (a) $\sqrt{\pi} : \sqrt{6}$ (b) $\sqrt{6} : \sqrt{\pi}$ (c) $\sqrt{\pi} : \sqrt{3}$ (d) $\sqrt{3} : \sqrt{\pi}$
18. The surface areas of 3 faces of a cuboid are 36 cm^2 , 49 cm^2 and 64 cm^2 . Then the volume of the cuboid is
 (a) 340 cm^2 (b) 300 cm^2 (c) 330 cm^2 (d) 336 cm^2

- Direction :** In the question number 19 and 20 , a statement of Assertion (A) is followed by a statement of Reason (R).
 (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
 (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
 (c) Assertion (A) is true but reason (R) is false
 (d) Assertion (A) is false but Reason (R) is true

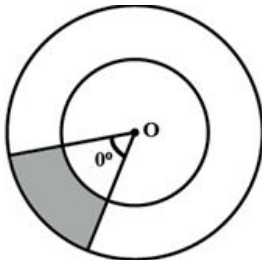
19. Assertion (A) : The length of the minute hand of a clock is 7 cm . Then the area swept by the minute hand in 5 minutes is $\frac{77}{6}\text{ cm}^2$
 Reason (R) : The length of an arc of a sector of angle θ and radius r is given by $l = \frac{\theta}{360} \times 2\pi r$

20. Assertion (A) : If we join two hemispheres of same radius along their bases, then we get a sphere.
 Reason (R) : A tank is made of the shape of a cylinder with a hemispherical depression at one end. The height of the cylinder is 1.45 m and radius is 30 cm . The total surface area of the tank is 3.3 m .

SECTION – B **(5 X 2 = 10)**

21. A cubical block of side 7 cm is surmounted by a hemisphere. What is the greatest diameter the hemisphere can have? Find the surface area of the solid.
22. Two circles with radii of 20 cm and 7 cm respectively. Find the radius of the circle whose circumference equals the sum of the circumference of the two circles.

- (or)
 Find the area of the shaded region in the given figure, if radii of the two concentric circles with centre O are 7 cm and 14 cm respectively and $\angle AOC = 30^\circ$



23. Find the mode of the following distribution

Class	0 – 6	6 – 12	12 – 18	18 – 24	24 – 30
Frequency	7	5	10	12	6

24. From the top of a tower 50 m high the angles of depression of the top and bottom of a pole are observed to be 45° and 60° respectively. Find the height of the pole.
25. A bag contains 5 red , 8 white and 7 black balls. A ball is drawn at random from the bag. Find the probability that the drawn ball is (i) red or white (ii) neither white nor black
 (or)

- There are 30 cards of same size in a bag on which numbers 1 to 30 are written. One card is taken out of the bag at random. Find the probability that the number on the selected card is (i) not divisible by 3 (ii) divisible by 3

SECTION – C **(6 X 3 = 18)**

26. A vertical flag staff of length 12 m casts a shadow 8 m on the ground and at the same time a tower cast a shadow 28 m long. Find the height of the tower.
27. A wooden article was made by scooping out a hemisphere from each end of a solid cylinder. If the height of the cylinder is 10 cm and its base is of radius 3.5 cm , find the total surface area of the article.
28. The sum of the radius of the base and the height of a solid cylinder is 37 cm . If the total surface area of the solid cylinder is 1628 cm^2 , find the volume of the cylinder.
 (or)
 From a solid cylinder whose length is 2.4 cm and diameter 1.4 cm , a conical cavity of the same length and same diameter is hollowed out. Find the total surface area of the remaining solid to the nearest cm^2 .

29. In the centre of a circle with a radius of 10 cm , a chord subtends a right angle. Find the area of minor and major segment.
30. If the median distribution given below is 28.5 , find the values of x and y .

Class-interval	Frequency
0 – 10	5
10 – 20	x
20 – 30	20
30 – 40	15
40 – 50	y
50 – 60	5
Total	60

(or)

The length of 40 leaves of a plant are measured correct to nearest millimeter and the data obtained is represented in the following table

Length (in mm)	Number of leaves
118 – 126	3
127 – 135	5
136 – 144	9
145 – 153	12
154 – 162	5
163 – 171	4
172 – 180	2

Find the median length of the leaves

31. A coin is tossed 3 times. List the possible outcomes. Find the probability of getting
(i) all heads (ii) atleast 2 heads

SECTION – D

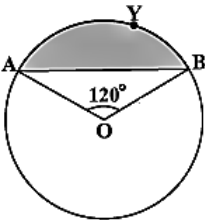
(4 X 5 = 20)

32. Two poles of equal heights are standing opposite to each other on either side of the road, which is 80 m wide. From a point between them on the road, the angles of elevation of the top of the poles are 60° and 30° respectively. Find the height of the poles and the distance of the point from the poles.

(or)

A TV tower stands vertically on a bank of a canal. From a point on the other bank directly opposite the tower the angle of elevation of the top of the tower is 60° . From another point 20 m away from this point on the line joining this point to the foot of the tower, the angle of elevation of the top of the tower is 30° . Find the height of the tower and the width of the canal.

33. Find the area of the segment AYB shown in figure if
radius of the circle is 21 cm and $\angle AOB = 120^\circ$



34. Due to heavy floods in a state, thousands were rendered homeless. 50 schools collectively decided to provide place and the canvas for 1500 tents and share the whole expenditure equally. The lower part of each tent is cylindrical with base radius 2.8 m and height 3.5 m and the upper part is conical with the same base radius but of height 2.1 m . If the canvas used to make the tents costs $\text{Rs. } 120\text{ per m}^2$, find the amount shared by each school to set up the tents.

(or)

A solid is in the form of a cylinder with hemispherical ends. The total height of the solid is 20 cm and the diameter of the cylinder is 7 cm . Find the total volume of the solid.

35. The following distribution gives the state-wise teacher-student ratio in higher secondary schools of India. Find the mode and mean of this data. Interpret the two measures.

Number of students per teacher	Number of states/UT
15 – 20	3
20 – 25	8
25 – 30	9
30 – 35	10
35 – 40	3
40 – 45	0
45 – 50	0
50 – 55	2

SECTION – E

(3 X 4 = 12)

36. Rahul and Ravi planned to play Business (board game) in which they were supposed to use two dice.

(a) Ravi got first chance to roll the dice. What is the probability that he got the sum of the two numbers appearing on the top face of the dice is 8?

- (i) $\frac{1}{26}$ (ii) $\frac{5}{36}$ (iii) $\frac{1}{18}$ (iv) 0 (1)

(b) Rahul got next chance. What is the probability that he got the sum of the two numbers appearing on the top face of the dice is 13?

- (i) 1 (ii) $\frac{5}{36}$ (iii) $\frac{1}{18}$ (iv) 0 (1)

(c) Now it was Ravi's turn. He rolled the dice. What is the probability that he got the sum of the two numbers appearing on the top face of the dice is less than or equal to 12 ?

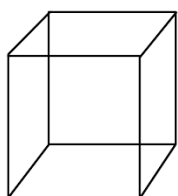
- (i) 1 (ii) $\frac{5}{36}$ (iii) $\frac{1}{18}$ (iv) 0 (2)

(or)

Rahul got next chance. What is the probability that he got the sum of the two numbers appearing on the top face of the dice is equal to 7 ?

- (i) $\frac{5}{9}$ (ii) $\frac{5}{36}$ (iii) $\frac{1}{6}$ (iv) 0 (2)

37. On a Sunday, your parents took you to a fair. You could see lot of toys displayed and you wanted them to buy a RUBIK's cube and strawberry ice – cream for you. Observe the figures and answer the questions.



(a) The length of the diagonal if each edge measures 6 cm is (1)

- (i) $3\sqrt{3}$ cm (ii) $3\sqrt{6}$ cm (iii) $\sqrt{12}$ cm (iv) $6\sqrt{3}$ cm

(b) Volume of the solid figure if the length of the edge is 7 cm is (1)

- (i) 256 cm³ (ii) 196 cm³ (iii) 346 cm³ (iv) 434 cm³

(c) What is the total surface area of cone with hemispherical ice – cream is (2)

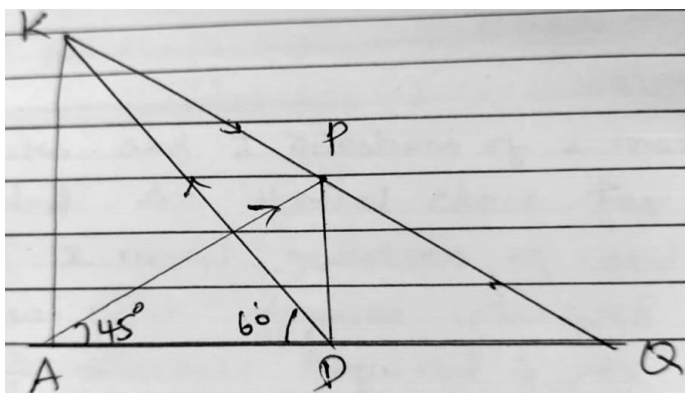
- (i) 858 cm² (ii) 885 cm² (iii) 588 cm² (iv) 855 cm²

(or)

Slant height of a cone if the radius is 7 cm and the height is 24 cm (2)

- (i) 26 cm (ii) 25 cm (iii) 52 cm (iv) 62 cm

38. Anish and Dhruv are standing 500 m apart in a ground. Dhruv notices a kite exactly above Anish and at an elevation of 60°. Kite is moving in a straight line. When kite is exactly above the Dhruv, Anish observes the angle of elevation of the kite to be 45°



(a) The length of kite when it is exactly above Anish is (1)

- (i) 500 m (ii) $\frac{500}{\sqrt{3}}$ m (iii) $500\sqrt{3}$ m (iv) $400\sqrt{3}$ m

(b) The height of the kite when it is exactly above Dhruv is (1)

- (i) 500 m (ii) $\frac{500}{\sqrt{3}}$ m (iii) $500\sqrt{3}$ m (iv) $400\sqrt{3}$ m

(c) The angle of depression of A from the point P is (2)

- (i) 60° (ii) 30° (iii) 45° (iv) None of these

(or)

The angle of depression of D from K is (2)

- (i) 60° (ii) 30° (iii) 45° (iv) None of these

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 marks each) with subparts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E
8. Draw neat figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.

SECTION A

1. If a tower of height 6m casts a shadow $2\sqrt{3}$ m long on the ground, then the angle of elevation of the sun is
a) 60° b) 45° c) 30° d) 90°
2. The area of a circle that can be inscribed in a square of side 6 cm is
a) $36\pi cm^2$ b) $18\pi cm^2$ c) $12\pi cm^2$ d) $9\pi cm^2$
3. Difference between the mode and median of a data is 24, then the difference of median and mean is
a) 8 b) 12 c) 24 d) 36
4. The number of revolution made by a circular wheel of radius 0.25m in rolling a distance of 11km is
a) 2800 b) 4000 c) 15500 d) 7000
5. For the following distribution,

Class	0 – 5	5 – 10	10 – 15	15 – 20	20 - 25
Frequency	10	15	12	20	9

The sum of the lower limits of the median class and modal class is

- a) 15 b) 25 c) 30 d) 35
6. Two dice are rolled simultaneously, the probability that 6 will come up atleast once is.
a) $\frac{1}{6}$ b) $\frac{7}{36}$ c) $\frac{11}{36}$ d) $\frac{13}{36}$
7. The median of the first 50 even natural numbers is
a) 48 b) 49 c) 50 d) 51
8. The class mark of the class interval 10 – 25 is
a) 17.5 b) 16 c) 14 d) 18
9. If a die is thrown, the probability of getting a number less than 3 and greater than 2 is.
a) $\frac{1}{6}$ b) 0 c) $\frac{2}{6}$ d) $\frac{3}{6}$
10. The total surface area of a quadrant of a wooden sphere of radius 3.5 cm is
a) $56cm^2$ b) $35cm^2$ c) $77cm^2$ d) $22cm^2$
11. An integer is chosen at random between 1 and 100 the probability that the chosen number is divisible by 10 is
a) $\frac{9}{98}$ b) $\frac{8}{95}$ c) $\frac{9}{97}$ d) $\frac{5}{97}$
12. The chord of a circle of radius 10cm subtends a right angle at centre. The length of the chord is
a) 10cm b) 20cm c) $10\sqrt{2}cm$ d) $10\sqrt{3}cm$
13. The probability of picking a rotten apple from a lot of 400 apples is 0.035. the number of rotten apples in the lot is
a) 7 b) 14 c) 21 d) 28
14. The angle of elevation of the top of a tower at a point on the ground 40m away from the foot of the tower is 45° , then the height of the tower (in meters) is
a) $\frac{50}{\sqrt{2}}m$ b) $\frac{50}{\sqrt{3}}m$ c) $50\sqrt{3}m$ d) 40m
15. A horse is tied to a corner of a field which is in the shape of an equilateral triangle. If the length of the rope by which it is tied by is 7m, The area of the field over which it can graze is
a) $\frac{77}{2}m^2$ b) $\frac{77}{3}m^2$ c) $\frac{77}{4}m^2$ d) $77m^2$
16. From a solid cylinder with height 10cm and radius of base 6cm, a right circular cone of the same height and the same base is removed. The volume of the remaining solid is.
a) $280\pi cm^3$ b) $330\pi cm^3$ c) $240\pi cm^3$ d) $440\pi cm^3$
17. Volume of a right circular cylinder with its height equal to the radius is $25\frac{1}{7}cm^3$. Height of the cylinder is (Taking $\pi = \frac{22}{7}$)
a) 3cm b) 2 cm c) 4cm d) 7cm
18. A hemispherical depression is cut out from one face of the cubical wooden block such that the diameter l of the hemisphere is equal to the edge of the cube. Determine the surface area of the remaining solid.
a) $6l^2$ b) $6l^2 + \pi l^2$ c) $6l^2 + \pi \frac{l^2}{2}$ d) $6l^2 + \frac{\pi l^2}{4}$

DIRECTION: In the question number 19 and 20, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct option as

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
- (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.

19. Statement A (Assertion) : Total surface area of the cylinder having radius of the base 14cm and height 30cm
Is 3872cm^2

Statement R(Reason): If r be the radius and h be the height of the cylinder, then total surface area =
 $(2\pi rh + 2\pi r^2)$

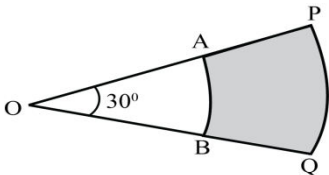
20. Statement A(Assertion): If the length of shadow of a vertical pole is equal to its height , then the angle of elevation of the sun is 45°

Statement R(Reason) : According to Pythagoras theorem, $h^2 = l^2 + b^2$, where h = hypotenuse, l – length and b = base

SECTION – B

21. An electric pole is 10 m high. A steel wire tied to top of the pole is affixed at a point on the ground to keep the pole up right. If the wire makes an angle of 45° . With the horizontal through the foot of the pole, find the length of the wire. (use $\sqrt{2} = 1.414$)

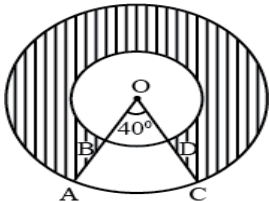
22. In the figure, PQ and AB are respectively the arcs of two concentric circles of radii 7 cm and 3.5 cm and centre O. If $\angle POQ = 30^\circ$, then the area of the shaded region.



(or)

In the given figure, find the area of the shaded region enclosed between the two concentric circles of radii 7cm

14cm where $\angle AOC = 40^\circ$ (USE $\pi = \frac{22}{7}$)



23. Find the mode of the following frequency distribution:

Classes	0 – 6	6 – 12	12 – 18	18 – 24	24 - 30
Frequency	7	5	10	12	6

24. A box contains cards numbered 1 to 57. Find the probability of drawing a card

- i) Which represents a perfect square number
- ii) Which represents a multiple of 7

25. 2 cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboids
(or)

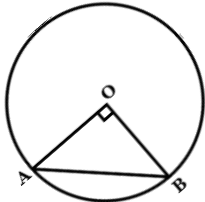
A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1cm and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .

SECTION – C

26. From a point on the ground, the angles of elevation of the bottom and top of a transmission tower fixed at the

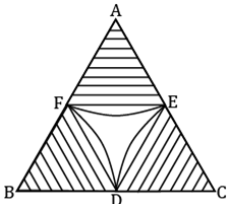
top of a 20m high building are 45° and 60° respectively. Find the height of the tower.

27. Find the area of the major segment APB, in the figure of a circle of radius 35cm and $\angle AOB = 90^\circ$



(or)

In figure ., arcs are drawn by taking vertices A, B and C of an equilateral triangle of side 10 cm, to intersect the sides BC, CA and AB at their respective mid-points D, E and F. The area of the shaded region.



28. A vessel is in the form of an inverted cone. Its height is 8 cm and radius of its top, which is open, is 5 cm. It is filled with water upto the brim. When lead shots, each of which is a sphere of radius 0.5 cm are dropped into the vessel, one fourth of the water flows out. Find the number of lead shots dropped in the vessel.
29. From a solid cylinder whose height is 2.4 cm and diameter 1.4 cm, a conical cavity of the same height and same diameter is hollowed out. Find the total surface area of the remaining solid to the nearest cm.
30. The mean of the following frequency distribution is 25. Find the value of f.

Classes	0 – 10	10 – 20	20 – 30	30 – 40	40 - 50
Frequency	5	18	15	f	6

(or)

Height of 50 students of class X of a school are recorded and following is obtained.

Height (in cm)	Number of Students
130 – 135	4
135 – 140	11
140 – 145	12
145 – 150	7
150 – 155	10
155 – 160	6

Find the median of the data:

31. Two coins are tossed simultaneously . What is the probability of getting
- i) atleast one head?
 - ii) atmost one tail?
 - iii) a head and a tail?

SECTION – D

32. The angle of elevation of an airplane from a point on the ground is 60°After a flight of 30 seconds, the angle of elevation become 30°. If the airplane is flying at a constant height of $3000\sqrt{3}$ m, find the speed of the airplane.

(or)

From the top of a tower 100 m high, a man observes two cars on the opposite of the tower with angles of depression 30° and 45° respectively. Find the distance between the cars. (Take $\sqrt{3}=1.732$)

33. A chord of a circle of radius 15 cm subtends an angle of 60° at the centre. Find the areas of the corresponding minor and major segments of the circle. (Use $\pi = 3.14$ and $\sqrt{3} = 1.73$)

34. A solid iron pole consists of a cylinder of height 220 cm and base diameter 24 cm, which is surmounted by another cylinder of height 60 cm and radius 8 cm. Find the mass of the pole, given that 1 cm³ of iron has approximately 8 g mass. (Use $\pi = 3.14$)

(or)

A solid consisting of a right circular cone of height 120 cm and radius 60 cm standing on a hemisphere of radius 60 cm is placed upright in a right circular cylinder full of water such that it touches the bottom.Find the volume of water left in the cylinder, if the radius is 60 cm and its height is 180 cm.

35. The medium of the following data is 525. Find the value of X and y, if total frequency is 100.

Class	Frequency
0 – 100	2
100 – 200	5
200 – 300	x
300 - 400	12
400 – 500	17
500 – 600	20
600 – 700	4
700 – 800	9
800 – 900	7
900 - 1000	4

SECTION – E

(Case study based questions are compulsory)

36. A group of students of class X visited India Gate on an education trip. The teacher and students had interest in history as well. The teacher narrated that India Gate, official name Delhi Memorial, originally called All-India War Memorial, monumental sandstone arch in New Delhi, dedicated to the troops of British India who died in wars fought between 1914 and 1919. The teacher also said that India Gate, is about 138 feet (42 metres) in height.

Use above information to answer the questions that follow.

- i) What is the angle of elevation if they are standing at a distance of 42m away from the monument?
a) 30° b) 45° c) 60° d) 0°
- .ii) A rod is kept vertically on the ground. The ratio of the length of the rod and its shadow is $1 : \sqrt{3}$ the angle of elevation of the sun is
a) 30° b) 45° c) 90° d) 60°
- iii) If they want to see the top of the monument at an angle of elevation of 60° , how far from the monument should they stand? (use $\sqrt{3} = 1.73$)
a) 20.12m b) 42m c) 24.22m d) 25.24m

(or)

If the altitude of the sun is at 60° , then the height of the vertical tower that will cast a shadow of length 20m is

- a) $20\sqrt{3}m$ b) $\frac{20}{\sqrt{3}}m$ c) $\frac{15}{\sqrt{3}}m$ d) $15\sqrt{3}m$
37. A health check up camp was organized for senior citizen of a locality. Money senior citizens participated in this camp. In this camp – each participant was given a card with details of his / her weight, height, blood group etc,...

The following table shows the weight of participants

Weight (in kg)	50 – 55	55 – 60	60 – 65	65 – 70	70 – 75	75 - 80
Number of persons	8	10	14	20	6	4

- i) What is the model class?
a) 55 – 60 b) 60 – 65 c) 65 – 70 d) 70 – 75
- ii) What is the class size of the model class?
a) 65 – 70 b) 65 – 70 c) 70 – 75 d) 75 – 80
- iii) What is the median class?
a) 55 – 60 b) 60 – 65 c) 65 – 70 d) 70 – 75

(or)

How mode, mean and median are related?

- a) Mode = 3 median – 2 mean
b) 2 mode = 3 median – 2 mean
c) Mean = 3 median – 2 mode
d) none of these
38. On a week end Rani was playing cards with her family, the deck has 52 cards. If her brother draw one card
i) Find the probability of getting a j=king of red colour?
ii) Find the probability of getting a jack of hearts
iii) Find the probability of getting a red face card
(or)
Find the probability of getting a spade.

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 marks each) with subparts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E
8. Draw neat figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated

SECTION – A

1. A pole 6m high casts a shadow $2\sqrt{3}$ m long on the ground then find the sun's elevation.
a) 60° b) 45° c) 30° d) 90°
2. If two solid hemispheres of same base radius r are joined together along their bases the curved surface area of this new solid is
a) $4\pi r^2$ b) $6\pi r^2$ c) $3\pi r^2$ d) $8\pi r^2$
3. While computing mean of grouped data, we assume that the frequencies are
a) evenly distributed over all class b) Centered at the class mark of the class
c) Centered at the upper limits of the classes d) centered at the lower limit of the classes
- 4) Two identical fair dice have numbers 1 to 6 written on their faces . Both are tossed simultaneously. What is the probability that the product of the numbers that turn up is 12.
a) $1/36$ b) $1/9$ c) $1/6$ d) $1/3$
- 5) If there is an event , that cannot occur, then its probability is
a) 1 b) $\frac{3}{4}$ c) $\frac{1}{2}$ d) 0
- 6) The angle of elevation of the top of a tower from a point on the ground which is 30m away from foot of the tower 30° . Find the height of the tower
a) $30\sqrt{3}$ m b) $\sqrt{3}/30$ m c) 10m d) $10\sqrt{3}$ m
- 7) The radius of a sphere (in cm) whose volume is 12π cm³ is
a) 3 b) $3\sqrt{3}$ c) $3^{2/3}$ d) 3^{10}
- 8) A cylindrical pencil sharpened at one edge is the combination of
a) a cone and a cylinder b) frustum of cone and a cylinder
c) a hemisphere and a cylinder d) two cylinder
- 9) Consider the following frequency distribution

Class	0 – 5	6 – 11	13 – 17	18 – 23	24 - 29
Frequency	13	10	15	8	11

The upper limit of the median class is

- a) 7 b) 17.5 c) 18 d) 18.5
- 10) Empirical relation between Mean, Median, Mode is .
a) Mode = 3 median – 2 mean
b) mode = 3 median = 2 mean
c) 3Median + 2 Mean = mode
d) Mode = 3 mean – 2 median
 - 11) The sum of the probability of all the elementary events of the experiment is
a) 1 b) 0 c) $\frac{1}{2}$ d) 2
 - 12) The number of revolutions made by a circular wheel of radius 0.25m in rolling a distance of 11km is
a) 7000 b) 18000 c) 12000 d) 9000
 - 13) The angle of dipression of a car parked on the road from the top of 150m tower is 30° . The distance of car from the tower (in meters) is
a) $50\sqrt{3}$ b) $150\sqrt{3}$ c) $150\sqrt{2}$ d) 75
 14. Area of a sector of angle P(in degrees) of a circle with radius R is
a) $\frac{P}{720^\circ} \times 2\pi R$ b) $\frac{P}{90^\circ} \times 2\pi R$ c) $\frac{P}{360^\circ} \times 2\pi R$ d) $\frac{P}{720^\circ} \times 2\pi R^2$
 - 15) Volume of 2 spheres are in the ratio 64 : 27. The ratio of 2 surface area is
a) 3 : 4 b) 4 : 3 c) 9 : 16 d) 16 : 3
 - 16) When a die is thrown, the probability of getting an odd number less than 3 is
a) $1/6$ b) $1/3$ c) $\frac{1}{2}$ d) 0
 - 17) Area of the largest triangle that can be inscribed in a semicircle of radius r unit is
a) r^2 sq. units b) $\frac{1}{2} r^2$ sq. units c) $2r^2$ sq. units d) $\sqrt{2} r^2$ sq. units

- 18) If the sum of areas of 2 circle with radii R_1 and R_2 is equal to the area of a circle of radius R then

- a) $R_1 + R_2 = R$ b) $R_1^2 + R_2^2 = R^2$ c) $R_1 + R_2 < R$ d) $R_1^2 - R_2^2 = R^2$

DIRECTION: In the question number 19 and 20, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct option as

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
- (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.

19) Assertion: The curved surface area of a cone of base radius 6cm and height 8cm is $60\pi cm^2$

Reason: $CSA \text{ of cone} = \pi r^2 h$ where r be the radius and h be the height of cone.

20) Assertion: The line of sight is the observer to the point in the object viewed by the observer

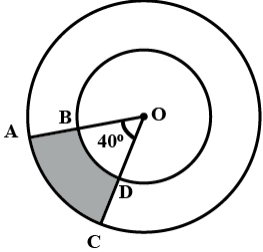
Reason: Trigonometric ratios are used to find height or length of an object or distance between two objects.

SECTION – B

(5x2=10)

21) From a point on the ground the angles of elevation of the bottom and top of a transmission tower fixed at the top of 20 m high building are 45° and 60° , respectively. Find the height of the transmission tower.

22) Find the area of the shaded region in figure, if radii of the two concentric circles with center O are 7 cm and 14 cm respectively and $\angle AOC = 40^\circ$.



(or)

The length of minute hand of a clock is 14cm. Find the area swept by the minute hand in 5 minutes

23) Two cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboid.

(or)

A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1cm and height of cone is equal to its radius. Find the volume of solid in terms of π .

24) A box contains 5 Red marbles, 8 white marbles and 4 green marbles. One marble is taken out of box at random. What is the probability that the marble taken out will be a) red b) not green

25) Find median of the data using Empirical formula when it is given that mode = 35.3 and mean = 30.5 .

SECTION – C

(6X3=18)

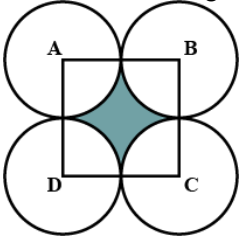
26) The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60° . If the tower is 50 m high, find the height of the building.

27) A chord of circle of radius 12cm subtends an angle of 120° at the centre. Find the area of the corresponding segment of the circle. (Use $\pi = 3.14$ and $\sqrt{3} = 1.73$)

(or)

An umbrella has 8 ribs which are equally spaced. Assuming umbrella to be a flat circle of radius 45cm, find the area between the two consecutive ribs of the umbrella.

28) In figure, ABCD is a square of side 14cm. With centres A, B, C and D, four circles are drawn such that each circle touch externally two of the remaining three circles. Find the area of the shaded region.



29) A tent is in the shape of a cylinder surmounted by a conical top. If the height and diameter of the cylindrical part are 2.1 m and 4 m respectively, and the slant height of the top is 2.8 m, find the area of the canvas used for making the tent. Also, find the cost of the canvas of the tent at the rate of Rs 500 per m^2 .

30) The following distribution shows the daily pocket allowances of children of a locality. The mean pocket allowance is Rs. 18. Find the missing frequency f.

daily pocket allowances in Rs	11 – 13	13 – 15	15 – 17	17 – 19	19 – 21	21 – 23	23 - 25
No of Children	7	6	9	13	F	5	4

(or)

If median of the distribution given below is 28.5 find the value of x and y

Class Interval	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	Total
frequency	5	X	20	15	Y	5	60

31) Two coins are tossed simultaneously what is the probability of getting (i) atleast 1 head (ii) atmost 1 tail (iii) a head and tail

SECTION – D

(4x5=20)

32) The following table gives the distribution of life time of 400 neon lamps. Find median life time of the lamp.

Life time in hours	No. of lamps
--------------------	--------------

1500 - 2000	14
2000 – 2500	56
2500 – 3000	60
3000 – 3500	86
3500 – 4000	74
4000 – 4500	62
4500 - 5000	48

33) There are two identical solid cubical boxes of side 7cm. From the top face of the first cube a hemisphere of diameter equal to the side of the cube is scooped out. This hemisphere is inverted and placed on the top of the second cube’s surface to form a dome. Find (i) the ratio of the total surface area of the two new solids formed (ii) volume of each new solid formed

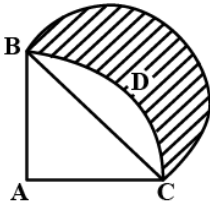
(or)

A vessel full of water is in the form of an inverted cone of height 8 cm and the radius of its top, which is open, is 5 cm. 100 spherical lead balls are dropped into vessel. One-fourth of the water flows out of the vessel. Find the radius of a spherical ball.

34) From a pack of 52 playing cards Jacks, and Kings of red colour and queen and Aces of black colour are removed the remaining cards are mixed and a card is drawn at random. Find the probability that the drawn card is

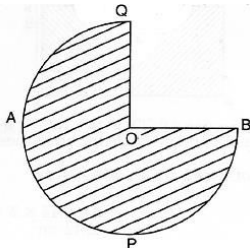
(i) a black queen (ii) a card of Red colour (iii) A Jack of black colour (iv) A face card

35) In the figure ABDC is a quadrant of a circle of radius 28 cm and a semi circle BEC is drawn with BC as diameter . Find the area of the shaded region.(Use $\pi=\frac{22}{7}$)



(or)

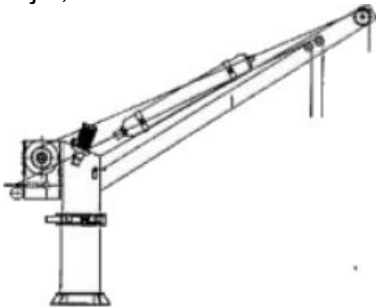
In figure APB and AQB are two semicircle , and AO=OB. If the perimeter of the figure is 47 cm, find the area of the shaded region



SECTION – E

(3X4=12)

36) A crane stands on a level ground. It is represented by a tower ABCD, of height 11 m and a jib BR. The jib is of length 20 m and can rotate in a vertical plane about B.A vertical cable, RS, carries a load S. the diagram shows current position of the jib, cable and load.

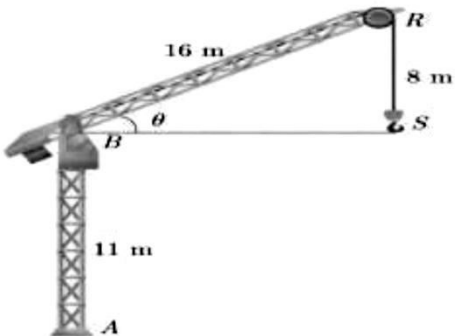


On the basis of the above information answer the following questions

- Find the length BS. (1)
- Find the angle that the jib, BR, makes with the horizontal. (1)
- In the diagram below, the jib BR has been rotated and the length RS is increased. The load S is now on the ground at a point 8m from A find the measure of the angle BRS and also find the angle through which jib has been rotated

(or)

Find the length by which RS has increased (2)



37) The distribution of the masses of the apples is given in the following table

Mass in grams	Frequency
80 – 100	20
100 – 120	60
120 – 140	70
140 – 160	P
160 – 180	60
Total	250

On the basis of the information answer the following questions

- a) Find the value of p? (1)
- b) Find the mean mass of apples? (1)
- c) Find upper limit of median class (or) find the modal mass of the apples? (2)

38) A ticket machine in a car park takes ₹1 coin and ₹2 coin. A ticket cost ₹3. The probability that the machine will accept a particular ₹1 coin is 0.9 and that it will accept a particular ₹2 coin is 0.8. On the basis of the above information, answer the following questions:

- a) Find the probability that Jayant will not get a ticket.
- b) Pritam has one ₹1 coins and two ₹2 coins. Find the probability that Pritam will get a ticket.
- c) Urmila put one ₹1 coin and one ₹2 coin into the machine. Find the probability that the machine will not accept either of these coins.
- (or)

Jayant only has three ₹1 coins. Find the probability that the machine accept all these coins. Also find the probability that the machine will not accept a particular ₹1 coin.

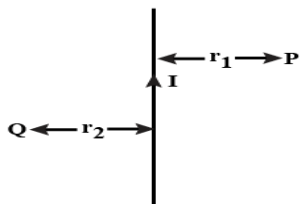
General instructions:

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

SECTION – A

Select and write one most appropriate option out of the four options given for each of the questions: 1 – 20.

- Which of the following does not belong to the same homologous series?
a) CH_4 b) C_2H_6 c) C_4H_8 d) C_3H_8
- Mineral acids are stronger acids than carboxylic acids because
i) mineral acids are completely ionized. ii) carboxylic acids are completely ionized.
iii) mineral acids are partially ionized. iv) carboxylic acids are partially ionized.
a) (i) and (iv) b) (ii) and (iii) c) (i) and (ii) d) (ii) and (iv)
- The atomic number of an element 'X' is 12 which inert gas is nearest to 'X'?
a) He b) Ne c) Kr d) Ar
- A reagent which can help us to distinguish between alkenes and alkanes is
a) Bromine water b) Alkaline ethanol
c) Ammoniacal cuprous chloride d) Carbon tetra chloride
- Reaction between X and Y forms compound Z. X loses an electron and Y gains an electron. Which of the following properties is NOT shown by Z?
a) Has high melting point. b) Has low melting point.
c) Conducts electricity in molten state. d) Occurs as solid.
- $\text{CH}_3 - \text{CH}_2\text{OH} \xrightarrow[\Delta]{\text{ALK. KMnO}_4} \text{CH}_3 - \text{COOH}$ In the above given reaction alkaline KMnO_4 acts as
a) reducing agent b) oxidizing agent c) catalyst d) dehydrating agent
- The poorest conductor of heat among metal is
a) lead b) Calcium c) Sodium d) Aluminum
- Which of the following constitute a food chain?
a) Grass, Wheat and Mango b) Grass, Goat and Human
c) Goat, Cow and Elephant d) Grass, Fish and Goat
- Independent inheritance of two separate traits, shape and colour of seeds in Mendel's cross on pea plants resulted in a observable ratio of :
a) 3 : 1 b) 9 : 3 : 3 : 1 c) 1 : 1 d) 9 : 4 : 2 : 1
- IUCD is for
a) Vegetative propagation b) Contraception c) Increasing fertility d) Avoiding miscarriage
- A small portion of oviduct of a woman is removed by surgical operation and the cut ends are ligated is ____
a) Copper-T b) Tubectomy c) Vasectomy d) Diaphragm
- The ratio of number of chromosomes in a human zygote and a human sperm is:
a) 2 : 1 b) 3 : 1 c) 1 : 2 d) 1 : 3
- Two metals A and B are good conductors of electricity . 'A' melts at 550°C . while 'B' melts at 2500°C . Which one would you use for making filament of bulbs and which one for fuse wire?
- Three materials A, B, and C are good conductor of electricity . Given that.
 $\rho = 1.62 \times 10^{-8} \Omega\text{m}$ $\rho = 44 \times 10^{-6} \Omega\text{m}$ and $\rho = 20.8 \times 10^{14} \Omega\text{m}$
select a good conductor and good insulator.
- AB is a current carrying conductor in the plane of the paper as shown in Figure. What are the directions of magnetic fields produced by it at points P and Q?



- Name and state the rule which determine the direction of magnetic field around a straight current carrying conductor?

Q. no 17 to 20 are Assertion and Reason based questions. These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

17. Assertion: Ethanoic acid liberates hydrogen with sodium metal

Reason: More reactive sodium displaces hydrogen from ethanoic acid

18. Assertion: In humans males play an important role in determining the sex of the child

Reason: Males have two X chromosomes

19. Assertion: Aquarium needs regular cleaning

Reason : There are no miracles to clean water in aquarium, therefore , it needs to be regularly cleaned.

20. Assertion: Alternating current is used in household supply

Reason : Electric power can be transmitted over long distance without much loss of energy

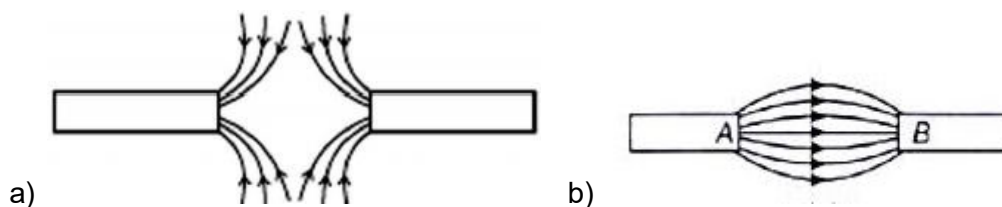
SECTION – B (Q. No 21 to 26 are very short answer questions)

21. Carbon prefers to share its valence electrons with other atoms of carbon or with atoms of other elements rather than gaining or losing the valence electrons in order to attain noble gas configuration." Give reasons to justify this statement.

(or)

Give reason

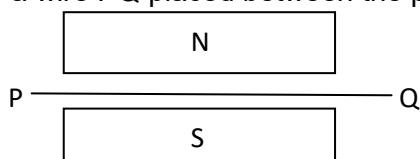
- a) The gas stoves have inlets for air
 - b) Pure electronic acid is called as glacial acetic acid
22. What are non – biodegradable substances? Give two examples.
23. In the following food chain, 100J of energy is available to the lion. How much energy was available to the producer? Plant → Dear → Lion
24. a) What is the reproductive organ of angiosperm?
b) Name the male and female reproductive part of a flower?
25. i) Identify the poles of the magnet in the following diagram



ii) Why do two magnetic field lines never cross each other.

(or)

Figure shows a wire PQ placed between the poles of a magnet. There is a current in wire PQ.



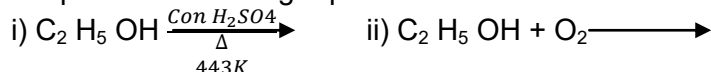
- i) What is the direction of the magnetic field line between the poles of the magnet?
 - ii) The force on PQ is into the paper, What is the direction of the current in the wire?
26. a) Why is the progeny always tall when a tall pea plant is crossed with a short pea plant?
b) Name two human traits which show Variation

SECTION – C (Q. No 27 to 33 are short answer questions)

27. A metal 'X' which is used in thermite process, when heated with oxygen gives an oxide 'Y' which is amphoteric in nature.

Identify X and Y Write down balanced chemical equations of the reaction of oxide 'Y' with HCl and NaOH

- 28. a) Describe addition reaction with its industrial application
- b) Complete the following equation



29. In a cross between plants with purple flower and plants with white flowers, the offspring of F1 generation all had white flowers. When the F1 generation was self- crossed, it was observed in the F2 generation that out of 100, 75 flowers were purple. Make a cross and find Phenotypic and genotypic ratio.

30. A geyser is rated 1500w, 250v. This geyser is connected to 250v mains. Calculate

- i) the current drawn
- ii) The energy consumed in 5 hours
- iii) The cost of energy consumed at Rs. 2.20 per kwh

31. i) What is the usual colour of insulation of
 i) live wire ii) neutral wire and iii) earth wire
 ii) Why is it necessary to earth the metallic electrical appliances?
 iii) Name two safety measures commonly used in domestic electric circuits and appliance
32. The following table given below shows the information about two heater A and B. Analyze the table and answer the following questions.

	Heater – A	Heater - B
Power	100w	150w
Voltage	220v	220v
Resistance	?	?
Current	?	?

- a) Which heater has high resistance?
 b) If 1 kwh is priced at Rs. 5 which heater will be costlier if they run for 1 hour each?
 (or)
 a) What are the advantages of connecting electrical devices in parallel with the battery instead of connecting them in series.
 b) Two Resistance of 20w and 40w are connected in parallel in an electric circuits. Compare the current passing through the two resistors.
33. Why is damage to the ozone layer a cause for concern? What are its causes and what steps are being taken to limit this damage?

SECTION – D (Q. No 34 to 36 are long answer questions)

34. a) How is the process of pollination different from fertilization?
 b) What happen to the flower after fertilization?
 c) What are unisexual flower? Give examples.

(or)

Draw a neat diagram of human female reproductive system and label the parts associated with the following

- Production of gametes
 - Site of fertilization
 - Site of implantation
 - Birth canal
- 35.a) Write the electron dot structure of second member of alkene.
 b) Draw all the possible isomers of pentane and write their IUPAC names.
 c) An organic compound 'A' is widely used as a preservative in pickles and has a molecular formula $C_2H_4O_2$. The compound reacts with ethanol in presence of acid to form a sweet smelling compound 'B'
 i) Identify the compound 'A' and 'B'
 ii) Write the balanced chemical equation for its reaction with ethanol to form compound 'B'
 (or)
 a) Show the bond formation of MgO
 b) Describe electrolytic refining of copper with labeled diagram.
36. Draw the pattern of magnetic field lines around a current carrying solenoid and mark the north and south poles. What can you say about the magnetic field inside the solenoid? How can a solenoid be used to form an electro magnet ?

SECTION – E

37. Read the given passage and answer the questions that follow:
 Soaps and detergents are widely used as cleaning agents. Chemically soap and detergents are quite different from each other. The common feature of soaps and detergents is that when dissolved in water the molecular of soap of detergent tend to concentrate at the surface of the solution or at interface. So the surface tension of the solution is reduced. A sample of water which gives lather with soap with difficulty is known as hard water, gives lather easily with soap is known as soft water. Hardness of water is due to the presence of bicarbonates, sulphates and chlorides of calcium and magnesium. When hardness of water is due to the presence of bicarbonate , sulphates and chloride of calcium and magnesium and calcium called temporary hardness.
- What is the difference between the molecule of soap and detergents chemically?
 - Why does micelle formation take place when soap is added to water?
 - Why do soaps not form lather in hard water?
38. A tall green pea plant that is homozygous dominant (TTGG) Crossed with a short yellow pea plant of homozygous recessive (ttgg)
 a) Write the Phenotype of homozygous dominant and homozygous recessive .

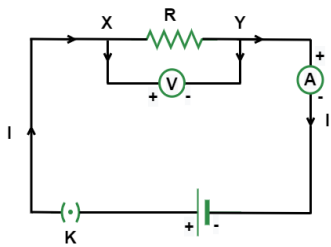
b) Mention the genotype of tall green pea plant and short yellow pea plant

c) Which trait of pea plant is appearing in F₁ generation?

(or)

c) What genetic cross would give Phenotype ratio of 9 : 3 : 3 : 1

39. We all are aware of the heating effect of electric current. The heat is produced in a conductor due to the collision of electrons in the conductor



i) How is the heat produced in a resistor related to “I” “R” and ‘t’ according to Joule’s law of heating?

ii) Find the heat energy produced in resistance of 5Ω. When 3A current flow through it for 2 minutes?

iii) Two conducting wires of same material and of equal length and equal diameters first connected in series and then parallel in a circuit across the same potential difference. Find the ratio of heat produced in series and parallel combination

(or)

If the heat produced in each second in a 8 Ω resistance is 800J. find the potential difference across the resistor?

General instructions:

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

SECTION – A

1. Write balanced chemical equations to explain what happens, when

- Mixture of cuprous oxide and cuprous sulphide is heated.
- Zinc carbonate undergoes calcination.

2. The electronic configuration of four elements are given,

- A → 2, 8, 1
 B → 2, 8, 2
 C → 2, 8, 7
 D → 2, 6

- Which one among A, B, C and D forms monovalent anion?
- Which one among A, B, C and D forms divalent cation?

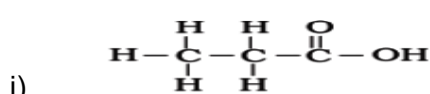
3. During electrolytic refining of Zinc, it gets

- Deposited on cathode
- Deposited on anode
- Deposited on cathode as well as anode
- Remain in the solution

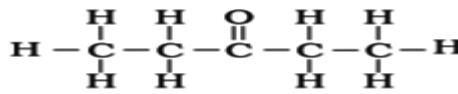
4. Which of the following are alkenes?

CH_4 , C_2H_6 , C_2H_4 , C_3H_5 , and C_3H_8

5. Name the functional groups present in the following compounds.



ii)



6. A student studies that a soap molecule has two ends, one of which is the carbonic chain. Which option explains the interaction of a soap molecule with oil.

- Ends of the soap randomly interact with the oil.
- Ionic end of the soap interacts with the oil.
- Carbonic chain end of the soap interacts with the oil.
- The closest end of the soap interacts with the oil.

7. Draw the electron dot structure of :

- Propanone
- Bromo Butane

8. Which of the following statements is incorrect?

- For every hormone there is a gene
- For every protein there is a gene
- For production of every enzyme there is a gene
- For every molecule of fat there is a gene.

9. The number of chromosomes in parents and offspring of a particular species remains constant due to

- Chromosomes get doubled after zygote formation
- Chromosomes get halved during gamete formation
- Chromosomes get doubled after gamete formation
- Chromosomes get halved after gamete formation

10. If 'A' represents the dominant gene and 'a' represents its recessive allele, which of the following would be the most likely result in the first generation offspring when Aa is crossed with aa?

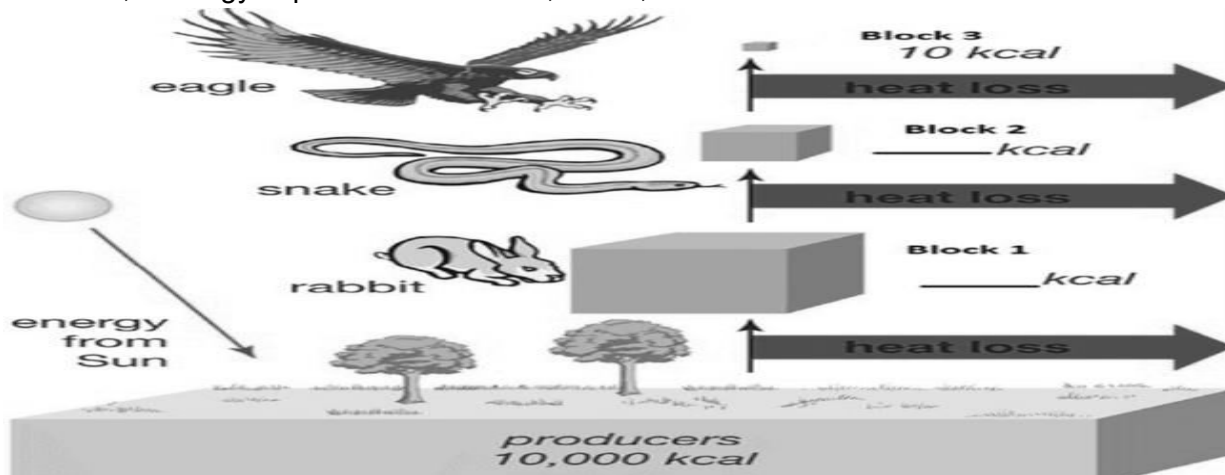
- All will exhibit dominant phenotype.
- All will exhibit recessive phenotype.
- Dominant and recessive phenotypes will be 50% each.
- Dominant phenotype will be 75%

11. Which of the following statements are true for flowers?

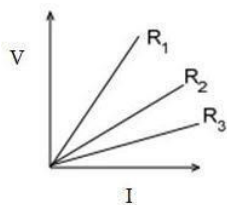
- Flowers are always bisexual.
- They are the sexual reproductive organs.
- They are produced in all groups of plants.
- After fertilisation, they give rise to fruits.

- (i) and (iv)
- (ii) and (iii)
- (i) and (iii)
- (ii) and (iv)

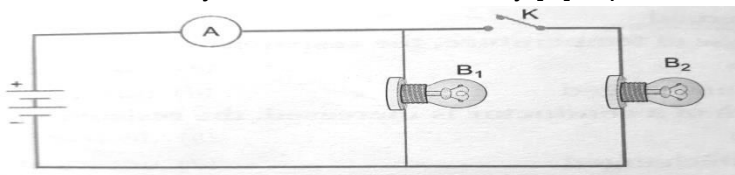
12. In the figure given below what would be the amount of energy available at block – 1 and block – 2 levels, if energy at producer level is 10, 000 K, cal.



- a) 1000K cal and 100 K cal
 b) 100K cal and 1000 K cal
 c) 10000K cal and 100 K cal
 d) 100K cal and 10 K cal
13. A student carries out an experiment and plots the V-I graph of three samples of nichrome wire with resistances R_1 , R_2 and R_3 respectively - Which of the following is true?



- a) $R_1 = R_2 = R_3$ b) $R_1 > R_2 > R_3$ c) $R_3 > R_2 > R_1$ d) $R_2 > R_3 > R_1$
14. Bulbs B_1 and B_2 are exactly identical. When the key [K] is pressed, the reading of the ammeter will.



- a) remain unchanged b) be doubled c) be halved d) become four times
15. A wire of length ' l ' carrying current ' i ' is placed parallel to the direction of magnetic field of strength ' B '. The magnetic force on the wire is .
- a) Bil b) zero [o] c) $\frac{il}{B}$ d) $\frac{iB}{l}$

16. The magnetic field inside a long solenoid carrying current
- a) is zero b) decreases as we move towards its end
 c) increases as we move towards its ends d) is the same at all points

For question number 17, 18, 19, 20 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:

- 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.
17. Assertion – ethnoic acid has six single bonds and one double bond
 Reason – It is an unsaturated organic compounds
18. Assertion – Variations are seen in offspring produced by sexual reproduction
 Reason – DNA molecule generated by replication is not exactly identical to original DNA
19. Assertion – Decomposer act as a cleaning agents of the environment
 Reason – The decomposer recycle waste material in the hydrosphere
20. Assertion – The strength of the magnetic field produced at the centre of a current of a current carrying circular coil increases on increasing the radius of the circular coil.
 Reason – Magnetic field strength is inversely proportional to the radius of the circular coil.

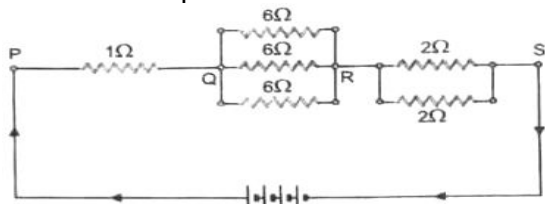
SECTION – B

21. Name the constituents of the following alloys :
 i) Brass ii) Stainless steel iii) Bronze
 State one property in each of these alloys which is different from its constituents
22. a) Mention the function of (i) Testes (ii) Vas deferense
 b) What could he reasons for adopting contraceptive method

23. Differentiate between somatic Variation and Genetic Variation
24. List two reasons to show that the existence of decomposers is essential in an ecosystem.
25. When two resistors of resistance R_1 and R_2 are connected in parallel, the net resistance is 3Ω . When connected in series, its value is 16Ω . Calculate the value of R_1 and R_2 .

(or)

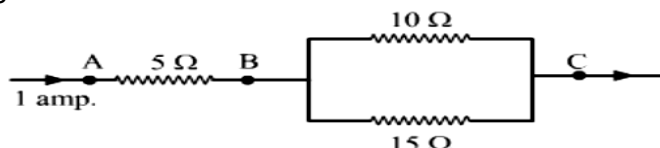
The potential difference between the points P and Q in the circuit shown is 1.5V . Find the potential difference between the points Q and R



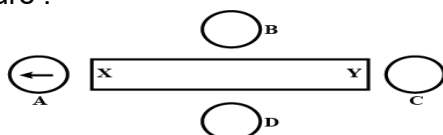
26. Why are only 4 or 5 trophic levels present in each food chain

SECTION – C

27. a) What is thermite process? Where is this process used? Write balanced chemical equation for the reaction involved.
 b) When do the metal Aluminum, used in the process, occur in the reactivity series of metal?
 c) Name the substance that are getting oxidized and reduced in the process
28. a) Give the IUPAC name of the following: CH_3Cl ii) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2$
 b) State the reason why carbon can neither form C^{4+} cation nor C^{4-} anion
 c) Write the structure of Benzene
29. A trait may be inherited, but may not be expressed. Justify this statement with the help of a suitable example.
 (or)
 a) Explain the rules of inheritance of traits in human beings.
 b) Name two human traits that show Variation.
30. Three resistors are connected as shown in the circuit. Though the resistor of 5Ω , a current of 1A is flowing.



- What is the potential difference across AB and AC?
 - What is the current through the other two resistors?
 - What is the total resistance?
31. a) What is the function of an earth wire? Why is it necessary to earth metallic appliances?
 b) An air – conditioner of 3.2kW power rating is connected to a domestic electric circuit having a current rating of 10A . The voltage of power supply is 220V . What will happen when this air conditioner is switched on? Explain your answer?
32. The diagram shows a bar magnet surrounded by four magnetic compasses. The direction of needle A is shown in figure :



- Copy the diagram and mark in the direction of the compass needle for each of the cases B, C, D.
- Which is the north pole, X or Y?

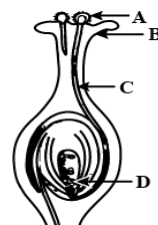
(or)

There are two long wires 'A' and 'B', 'A' carries current in vertically upward direction and 'B' in vertically downward direction. Draw the magnetic line pattern around wires A and B.

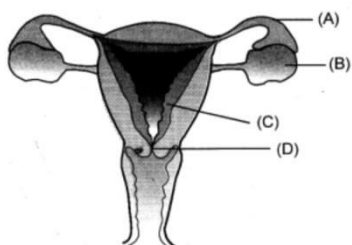
33. a) From the following group of organisms create a food chain which is most advantages for human beings in terms of energy (Hawk, Rat, Cereal, Plant, Goat, Snake, Human being)
 b) State the possible disadvantage if the cereal plant is growing in soil rich in pesticides.
 c) Construct a food web using the organisms mentioned above.

SECTION – D

34. a) i) Metal 'M' is found in nature as its sulphide 'MS'. It is used in the galvanization of Iron article. Identify the metal 'M'. How will you convert this sulphide ore into the metal? Explain with equation.
 ii) Explain the formation of calcium chloride with the help of electron dot structure.
 (or)
 b) Give reason why:
 a) Gold and silver are used for making jewellery
 b) a few metal are used for making cooking utensils
 c) Hydrogen is not evolved when a metal reacts with dil nitric acid.
 d) Give 2 methods to prevent rusting of iron
 e) Why does calcium float in water?
35. a) Name the parts labeled A, B, C and D in the given diagram
 b) What is pollination? State its significance
 c) How does fertilisation occur in flowers? Name the parts of the flower that develop into seed and fruits after fertilisation



- (or)
- a) Name the parts A, B, C and D in given diagram



- b) Name the parts associated with fertilisation
- Production of an egg.
- c) What happens to the lining of the uterus
- Before release of fertilized egg
 - If no fertilization occurs
- d) Name the surgical methods of Birth Control.
36. a) What is Solenoid?
- b) Draw the diagram of a current carrying solenoid
- c) State the rule used to find the polarity of a current carrying solenoid.
- d) What are the factors the current carrying solenoid depends?

SECTION – E

37. Read the passage and answer the questions based on passage and related studied concepts:

Homologous series is series of organic compounds which have same functional group. Each homologous series have a general formula from which all members of family can be derived. Each successive members of homologous series differ by $-\text{CH}_2$ and 14u in terms of mass. Member of homologous series resemble in chemical properties but show gradation in physical properties.

- What is the formula of alkene with 10 carbon atoms?
- What is the difference in molar mass of CH_3OH and $\text{C}_2\text{H}_5\text{OH}$?
- What is the formula of 3rd member of alcohol homologous series?
- Write structural formula of first member of alkyne.

(or)

- e) Write first member of carboxylic acid homologous series?
38. Mendel conducted hybridization experiments on garden peas and proposed the laws of inheritance in living organisms. He investigated characters in the garden pea plant that were manifested as two opposing traits.

A green stemmed rose plant denoted by “GG” and a brown stemmed rose plant denoted by “gg” are allowed to undergo a cross with each other

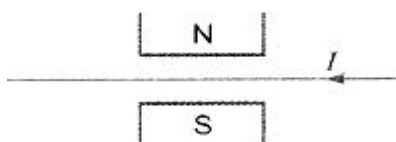
- What colour of stem would you expect in their F_1 progeny?
- Give the percentage of brown stemmed rose plants in F_2 generation if F_1 plants are self – pollinated
- Based on the finding of this cross, what conclusion can be drawn?

(or)

When a heterozygous green stemmed plant is crossed with a homozygous brown stemmed plant what is the probability of having green stemmed plants?

39. An electric current flowing through a conductor produces a magnetic field. The field produced exerts a force on a magnet placed in the vicinity of the conductor. French scientist Andre Morie Ampere suggested that the magnet must also exert an equal and opposite force on the current – carrying conductor.

- Name some devices in which Flemings left Hand Rule be used.
- When is the force experienced by a current carrying conductor placed in a magnetic field largest.
- State the rule to determine the direction of a force experienced by a straight conductor carrying current placed in a magnetic field.
 - A wire is placed between N and S poles of a magnet as shown in figure. If current is allowed to flow in the wire as shown, in which direction does the wire tend to move?



(or)

- What happens when a current carrying conductor is placed in a magnetic field? Name and state the rule by which the direction of force acting on current carrying conductor in a magnetic, field is determined.
- A positively charged particle (alpha – particle) projected towards west is deflected towards north by a magnetic field. Find the direction of magnetic field.

General instructions:

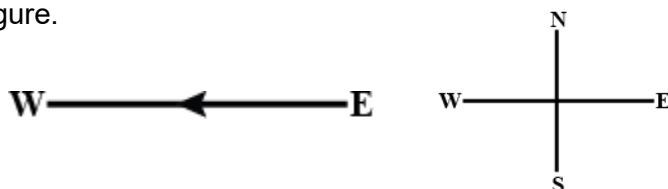
- This question paper consists of 39 questions in 5 sections.
- All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
- Section A consists of 20 objective type questions carrying 1 mark each.
- Section B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

SECTION – A

Select and write one most appropriate option out of the four options given for each of the questions: 1 – 20.

O
||

- Name the functional group - C - H
a) Alcohol b) Aldehyde c) Ketone d) carboxylic Acid
- Which one is the next homologous of $\text{CH}_3\text{CH}_2\text{OH}$
a) C_3H_5 b) $\text{C}_3\text{H}_7\text{OH}$ c) $\text{C}_5\text{H}_9\text{OH}$ d) CH_3OH
- What is the general formula of Alkane?
a) $\text{C}_n\text{H}_{2n} + 2$ b) $\text{C}_n\text{H}_{2n} - 1$ c) C_2H_{2n} d) $\text{C}_n\text{H}_{2n-2}$
- Which of the following gases is produced when acetic acid reacts with sodium carbonate?
a) H_2 b) CO_2 c) H_2S d) SO_2
- Which of the following is an iron ore?
a) Galena b) Zincblende c) Hematite d) Bauxite
- Aqua regia is a mixture of ..
a) HCl and H_2SO_4 in the ratio of 3:1 by volume b) HNO_3 and H_2SO_4 in the ratio of 1 : 3 by volume
c) HNO_3 and HCl in the ratio of 1:3 by volume d) HNO_3 and HCl in the ratio of 3 : 1 by volume
- Which of the following metals forms amphoteric oxide?
a) Zinc b) Magnesium c) Iron d) copper
- Mendel's law of segregation is applicable to (I) monohybrid cross (II) dihybrid cross
a) I only b) II only c) Both I and II d) None of these
- The correct sequence of reproductive stages seen in flowering plants is
a) gametes, zygote, embryo, seedling b) zygote, gametes, embryo, seedling
c) seedling, embryo, zygote, gametes d) gametes, embryo, zygote, seedling
- Which of the following constitute a food chain?
a) Grass, wheat and mango b) Grass, goat and human
c) Goat, cow and elephant d) Grass, fish and goat
- During the adolescence, several changes occur in the human body. Mark one change associated with sexual maturation in boys
a) loss of milk teeth b) Broadening of hips c) cracking of voice d) Developing of breasts
- Oral contraceptives prevent
a) Fertilization b) ovulation c) implantation d) entrance of sperms in vagina
- A current of 1 A is drawn by a filament of an electric bulb. Number of electrons passing through a cross section of the filament in 16 seconds is.
a) 10^{20} b) 10^{16} c) 10^{18} d) 10^{23}
- In an electrical circuit two resistors of 2 Ω and 4 Ω respectively are connected in series to a 6 V battery. The heat dissipated by the 4 Ω resistor in 5 seconds will be
a) 5Joules b) 10Joules c) 20 Joules d) 30 Joules
- A constant current flows in a horizontal wire in the plane of the paper from east to west as shown in the given Figure.



The direction of magnetic field at a point will be north to south

- directly above the wire
 - directly below the wire
 - at a point in the plane of paper, on the north side of the wire
 - at a point in the plane of paper, on the south side of the wire.
- The strength of magnetic field inside a long current carrying solenoid is :
a) More at the ends than at the centre b) Minimum in the middle
c) Same at all points d) Found to increase from one end to the other

Q. no 17 to 20 are Assertion and Reason based questions. These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

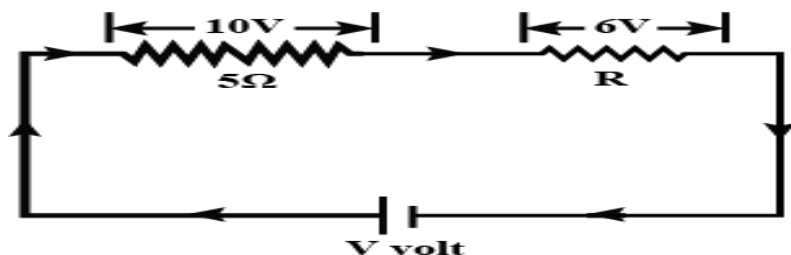
- 17) Assertion: Zinc does not react with cold water and hot water but reacts with steam
Reason : Sodium kept in outside reacts with air and moisture
- 18) Assertion : : Traits like eye colour or height are inherited traits
Reason : Inherited traits are not transferred from parents to off springs
- 19) Assertion: The flow of energy in the food chain is unidirectional.
Reason: The energy captured by autotrophs does not revert back to the solar input and it passes to the Herbivores
- 20) Assertion; Magnetic field lines never intersect
Reason; At a particular point magnetic field has only one direction

SECTION – B (Q. No 21 to 26 are very short answer questions)

- 21 Define : i) Scum ii) Micelles
(or)

Draw the electron dot structure of oxygen and magnesium

- 22) What is biodegradable substances: Give two examples
- 23) If 10,000 J solar energy falls on green plants in a terrestrial ecosystem, what percentage of solar energy will be converted into food energy in plants?
- 24) a) what is the fate of the ovules and the ovary in a flower after fertilization
b) How is the process of pollination difference from fertilization
- 25) a) What do you understand by the term 'Variation'?
b) What are the types of variation?
- 26) Two resistors are connected in series as shown in the diagram:



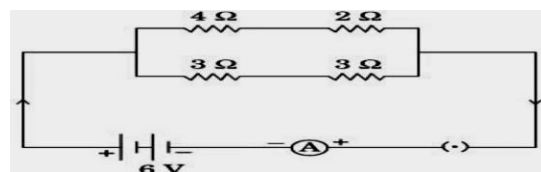
- a) What is the current through the 5 ohm resistance?
- b) What is the current through R?
(or)
- c) What is the value of R?
- d) What is the value of V?

SECTION – C (Q. No 27 to 33 are short answer questions)

- 27) Write the difference between Roasting and calcinations:
- 28) Define isomer. How many structural Isomer possible to butane (C_4H_{10}) Draw all the structure. IUPAC name.
- 29) How is the sex of the child determined in human beings?
(or)
Different between acquired traits and inherited traits
- 30) a) State the rule to determine the direction of magnetic field produced around a straight conductor carrying current .
b) The force experienced by a current carrying straight conductor placed in a magnetic field.
- 31) a) Define resistivity?
b) A cylinder of a material is 10cm long and has a cross-section of $2cm^2$. If its resistance along the length is 20Ω , what will be its resistivity?

- 32) In the circuit given below find :

- a) Total resistance of the network of resistors
- b) current through Ammeter A
- c) Potential difference across 3 ohms and 4 ohms resistors



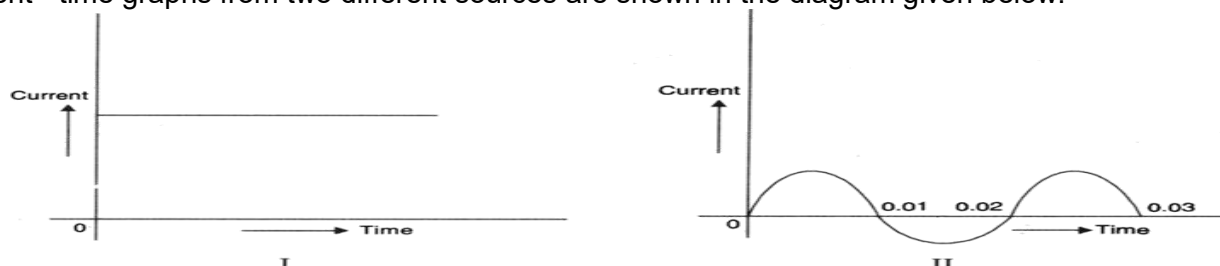
(or)

- Two lamps, one rated 40 W at 220 Volts and the other 60 W at 220 Volts, are connected in parallel to the electric supply at 220 Volts
- a) Calculate the resistance of the lamps

- b) Calculate the current drawn from the electric supply.
 c) Calculate the total energy consumed in joules by the two lamps together when they operate for one hour.
 33) Suggest any five activities in daily life which are eco – friendly

SECTION – D (Q. No 34 to 36 are long answer questions)

- 34) a) Why does carbon form compounds mainly by covalent bonding?
 b) List any two reasons for carbon forming a very large number of compounds?
 c) An organic acid 'X' is a liquid which often freezes during winter time in cold countries. It has the molecular formula $C_2H_4O_2$. On warming with ethanol in the presence of a few drops of sulphuric acid, a compound 'Y' with sweet smell is formed.
 (i) Identify X and Y.
 (ii) Write the chemical equation for the reaction involved.
 (or)
 a) Show the formation of Na_2O by the transfer of electrons between the combining atoms.
 b) what are the ions present in these compounds
 c) Why are ionic compounds usually hard?
 d) Define amphoteric oxides. Give examples
 35) a) How does the embryo gets nourishment inside the mother's body ?
 b) Why does menstruation occur?
 c) Mention any two functions of human ovary.
 (or)
 a) What are the functions performed by the testis in human beings?
 b) Why is scrotum situated outside the body?
 c) Describe the structure of the human sperm?
 d) Why is urethra in male called as common passage?
 36) Current - time graphs from two different sources are shown in the diagram given below:



- a) Name the type of current shown by graph I and graph II.
 b) Name any one source of the current shown by graph I and graph II.
 c) What is the frequency of current in graph II
 d) Write two difference between the current shown by graph I and graph II.

SECTION – E

Question No 37 to 39 are case – based / data based questions with 2 to 3 short sub – parts. Interval choice is provided in one of these sub parts

37) Carbon, in all its allotropic forms, burns in oxygen to give carbon dioxide along with the release of heat and light most carbon compounds also release a large amount of heat and light on burning saturated hydrocarbons will generally give a clean flame while unsaturated carbon compounds will give a yellow flame with lots of black smoke.

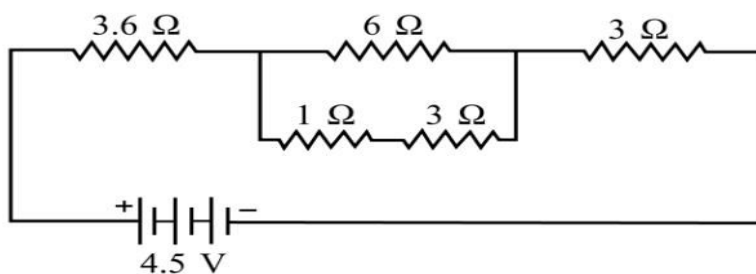
- a) Complete the reaction. $CH_3CH_2OH + O_2 \rightarrow$
 b) What is the reason for incomplete combustion?
 c) Which one produce incomplete combustion? saturated (or) unsaturated.
 d) Combustion is an oxidation (or) reduction reaction?
 (or)
 i) Name the unburnt carbon black colour smoke
 ii) What is the colour of complete and incomplete combustion.

38) Sara has green eyes while her parents and brother have black eyes. Sara's husband Ravi has black eyes

while his mother has green eyes and father has black eyes.

- a) On the basis of the above given information, is the green eye colour a dominant or recessive trait? Justify your answer.
 b) What is the possible genetic makeup of Sara's brother's eye colour?
 c) What is the probability that the offspring of Sara and Ravi will have green eyes? Also, show the inheritance of eye colour in the offspring with the help of a suitable cross.
 (or)
 50% of the off spring of Sara's brother are green eyes. With the help of cross show how this is possible.

39) Shyan made a circuit using five resistances: two 3 ohms, one 1 ohm, and one 6 ohms, one 3.6 ohms and a battery of 4.5 volts. The circuit diagram is given below:



- Find the total resistance of the parallel combination
- Find the equivalent resistance of the total circuit and find the total current in the circuit.
- Find the current through the 6 ohm resistance

(or)

Find the potential difference across 3.6 ohm resistance

CLASS: X
DATE: 13.12.2022

JAWAHAR HIGHER SECONDARY SCHOOL – NEYVELI
FIRST 50% PORTION EXAMINATION – (2022 – 2023)
SOCIAL SCIENCE

MARK: 80
TIME : 3 hrs

General Instructions:

1. Question paper comprises Six Sections – A, B, C, D, E and F. There are 37 questions in the question paper. All questions are compulsory.
2. Section A – From question 1 to 20 are MCQs of 1 mark each.
3. Section B – Question no. 21 to 24 are Very Short Answer Type Questions, carrying 2 marks each. Answer to each question should not exceed 40 words.
4. Section C contains Q.25 to Q.29 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60 words
5. Section D – Question no. 30 to 33 are long answer type questions, carrying 5 marks each. Answer to each question should not exceed 120 words.
6. Section-E - Questions no from 34 to 36 are case based questions with three sub questions and are of 4 marks each
7. Section F – Question no. 37 is map based, carrying 5 marks with two parts, 37a from History (2 marks) and 37b from Geography (3 marks).
8. 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.
9. In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION – A
MCQs

(1 X 20 = 20)

1. Who wrote about the injustices of the caste system in 'Gulamgiri'? (1)
(a) Raja Rammohan Roy (b) Jyotiba Phule
(c) Balgangadhar Tilak (d) Bankim Chandra Chattopadhyay
2. Which one is used to transport of perishable goods over long distance. (1)
(a) Improved railways (b) Airline services
(c) Refrigerated ships (d) Steamships
3. Look at the picture and identify who was he? (1)
(a) Advocate
(b) Jobber
(c) Farmer
(d) Doctor
4. Arrange the following statements in chronological order (1)
I. A children's press was set up in France
II. Printing presses were setup in most countries of Europe
III. Caricatures and cartoons were being published in journals and newspapers, commenting on social and political issues.
IV. Vernacular press Act was passed.



Options:

- (a) II , III , I , IV (b) II , I , III , IV (c) IV , III , II , I (d) I , IV , II , III
5. Complete the following table with correct information for (i) and (ii) (1)

crop	Annual Rainfall required	Climate	Temperature required for its growth (in degrees)
Sugarcane	(i) _____?	Hot & Humid	(ii) _____?

Options:

- (A) (i) 75 cm – 100 cm and 21° C – 27° C (B) (i) 75 cm and (ii) 21° C
(C) (i) 100 cm and (ii) 21° C (D) (i) 75 cm – 100 cm and (ii) 27° C and above
6. Name the variety of coffee produced in India which is in great demand all over the world. (1)
(a) Robusta (b) Liberica (c) Arabica (d) Plantation – A
7. Choose the correctly paired option from the following: (1)
(a) Jhumming – (i) Himalayan belt
(b) Dahiya – (ii) Assam
(c) Bringa – (iii) Madhyapradesh
(d) Khil – (iv) Odisha

Options:

- (A) (a – ii) , (b – i) , (c – iii) , (d – iv) (B) (a – ii) , (b – iii) , (c – iv) , (d – i)
(C) (a – i) , (b – ii) , (c – iv) , (d – iii) (D) (a – iii) , (b – iv) , (c – i) , (d – ii)

8. Consider the following statements regarding political party and identify the incorrect statement. (1)
- (a) More than 750 parties are registered with the Election Commission of India
 - (b) Parties are a necessary condition for democracy
 - (c) Two party system is ideal for all countries and all situations
 - (d) CPIM was founded in 1964

9. In the context of assessing democracy which among the following is odd one out. Democracies need to ensure (1)
- (a) Free and fair election
 - (b) dignity of the individual
 - (c) majority rule
 - (d) equal treatment before law

10. Which of the following statement is true regarding political party (1)
- (a) In India members and supporters of a party choose its candidates to contest in the election
 - (b) The rise of political parties is directly linked to the emergence of representative democracies
 - (c) The parties that lose in the election form and run the government
 - (d) Elephant is the symbol of BJP

11. Which one among the following pairs is correctly matched: (1)

LIST – I

–

LIST – II

- | | | |
|------------------------------|---|------------------|
| (a) USA and UK | – | Orissa |
| (b) Trinamool Congress | – | Flower and grass |
| (c) Biju Janata Dal | – | In 1885 |
| (d) Indian National Congress | – | Two party system |

12. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below: (1)

Assertion (A) : In actual life, democracies appear to be very successful in reducing economic inequality

Reason (R) : People in several poor countries are now dependent on the rich countries even for food supplies

- (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

13. Why is democracy considered as the better form of government than dictatorship? (1)

- (a) Promotes equality and enhance dignity of the individual
- (b) Never allows room to correct mistakes
- (c) Majority community rule
- (d) Does not provide method to resolve conflicts

14. Choose the correctly paired option from the following: (1)

Column – A

–

Column – B

- | | | |
|-------------------|---|--------------------------------|
| (1) Alluvial soil | – | (a) result of intense leaching |
| (2) Black soil | – | (b) sandy in texture |
| (3) Laterite soil | – | (c) sand, silt and clay |
| (4) Arid soil | – | (d) clayey material |

Options:

- | | |
|--|--|
| (A) (1 – b), (2 – c), (3 – d), (4 – a) | (B) (1 – d), (2 – a), (3 – b), (4 – c) |
| (C) (1 – a), (2 – c), (3 – b), (4 – d) | (D) (1 – c), (2 – d), (3 – a), (4 – b) |

15. These are the resources which are found in a region but have not been utilized. Identify the resources based on the status of development. (1)

- (a) Developed resources
- (b) Stock
- (c) Reserves
- (d) Potential resources

16. Which one of the following is not correct (1)

- (a) Species which are not found after searches of known areas where they may occur – Extinct species
- (b) Species whose population levels are considered to be normal for their survival – Normal species
- (c) Species with large population may move into the endangered category if the negative factors affecting them continue to operate } – Rare species
- (d) Species which are only found in some particular areas usually isolated by natural barriers } – Endemic species

17. Choose the correct answer: (1)

Name the world's fastest land mammal

- (a) Leopard
- (b) Cheetah
- (c) Tiger
- (d) Wild Asiatic buffalo

18. Analyse the given table and find out which country is at the top in HDI rank in the world. Some data regarding India and its neighbours for 2017 (1)

Countries	Gross National Income (GNI) Per Capita (2017 PPP \$)	Life Expectancy at birth (2017)	Mean Years of Schooling of People aged 25 and above (2017)	HDI Rank in the world (2018)
Sri Lanka	11,326	75.5	10.9	76
India	6,353	68.8	6.4	130
Myanmar	5,567	66.7	4.9	148
Pakistan	5,331	66.6	5.2	150
Nepal	2,471	70.6	4.9	149
Bangladesh	3,677	72.8	5.8	136

- (a) Sri Lanka (b) India (c) Pakistan (d) Nepal

19. Chandru receives his salary at the end of each month. He has extra cash at the beginning of the month. He deposits it with the bank by opening a bank account. He has the provision to withdraw the money as and when he requires. This kind of deposit with the bank is known as (1)
 (a) demand deposit (b) term deposit (c) recurring deposit (d) fixed deposit
20. There are two statements marked as Assertion (A) and Reason (R). Read the statements and choose the correct option. (1)
 Assertion (A) : Informal sources can lend at whatever interest rate they choose
 Reason (R) : The Reserve Bank of India supervises the functioning of formal sources of loans
 (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

Very short answer questions:

(4 X 2 = 8)

21. Name the non – mechanised sectors where ordinary and small innovations formed the basis of growth. (2)
22. What should be the basic outcome of democracy? (2)
23. “India is an agricultural country” – Give any two reasons. (2)
24. “Agriculture and industry are not exclusive of each other. They move hand in hand” – Explain. (2)
 (or)
 Mention the prime factors for location of Aluminium smelting industry.

SECTION – C

Short answer based questions:

(5 X 3 = 15)

25. “Economists identify three types of movement or flows within international Economic Exchanges”. What are they? (3)
 (or)
 “Indentured workers discovered their own way of surviving. How?” (3)
26. When was wild life protection Act implemented? Mention its main objectives. (3)
27. Explain any three human activities which are mainly responsible for land degradation in India. (3)
28. How are complaints treated as testimony to the success of democracy? – Explain. Justify the statement with three appropriate points. (3)
29. The economic strength of a country is measured by the development of manufacturing industries – Justify the statement with atleast three points. (3)

SECTION – D

Long answer based questions:

(4 X 5 = 20)

30. Why did people in the 18th Europe think that print culture would bring enlightenment and end despotism? (5)
 (or)
 Explain how print culture assisted the growth of nationalism in India.
31. “The earth has enough resources to meet the needs of all but not enough to satisfy the greed of even one person”. How is this statement relevant to the discussion of development – Discuss. (5)
 (or)
 Money in your pocket cannot buy all the goods and services that you may need to live well – Explain.
32. Explain some reforms to strengthen the working of political parties? (5)
 (or)
 How was the multiparty system strengthened democracy in India – Explain.

33. Analyse the role of credit for development. (or) (5)

Shymal has 1.5 acres of land for cultivation. He approaches the money lender to get loan. Arun has 7 acres of land. So he is able to receive bank loan for cultivation. Classify the sources of credit and differentiate between them.

SECTION – E

Case based questions: (3 X 4 = 12)

34. Read the given extract and answer following questions:

Before the age of machine industries silk and cotton goods from India dominated the International market in textiles. Coarser cottons were produced in many countries, but the finer varieties often came from India. Armenian and Persian merchants took the goods from Punjab to Afghanistan , Eastern Persia and central Asia, Bales of fine textiles were carried on camel back via the north-west frontier, through mountain passes and across deserts. A vibrant sea trade operated through the main pre-colonial ports.

- 34.1. Which were the goods from India dominated the international market? (1)
- 34.2. Which country produces finer varieties of cotton? (1)
- 34.3. How did merchants carry the goods through mountain passes and across desert? (1)
- 34.4. Which country merchants took the goods from Punjab to Afghanistan , Eastern Persia and Central Asia?

35. Read the given extract and answer the following questions:

Although industries contribute significantly to India’s economic growth and development, the increase in pollution of land, water, air, noise and resulting degradation of environment that they have caused, cannot be overlooked. Industries are responsible for four types of pollution: (a) Air (b) Water (c) Land (d) Noise. The polluting industries also include thermal power plants.

Air pollution is caused by the presence of high proportion of undesirable gases, such as sulphur dioxide and carbon monoxide. Air borne particulate materials contain both solid and liquid particles like dust, sprays mist and smoke. Smoke is emitted by chemical and paper factories, brick kilns, refineries and smelting plants and burning of fossil fuels in big and small factories that ignore pollution norms. Toxic gas leaks can be very hazardous with long – term effects. Water pollution is caused by organic and inorganic industrial wastes and effluents discharged into rivers. Fly ash, Phospo – gypsum and Iron and Steel slags are the major solid wastes in India.

Thermal pollution of water occurs when hot water from factories and thermal plants is drained into rivers and ponds before cooling.

Wastes from nuclear power plants, nuclear and weapon production facilities cause cancers, birth defects and miscarriages. Soil and water pollution are closely related.

- 35.i. What are the types of pollution caused by industries? (1)
- 35.ii. Mention the major causes of air pollutants. (1)
- 35.iii. What is Thermal Pollution? What are its effects? (1)

36. Read the given extract and answer the following questions:

Nationalist congress party formed in 1999 following a split in the congress party. Espouses democracy Gandhian secularism, equity, social – justice and federalism. Wants that high offices in government be confined to natural born citizens of the country. A major party in Maharashtra and has a significant presence in Meghalaya, Manipur and Assam. A coalition partner in the state of Maharashtra in alliance with the congress. Since 2004, a member of the United Progressive Alliance.

- 36.1. In which year NCP was formed? (1)
- 36.2. Which are the principles the party espouses? (1)
- 36.3. In which areas NCP party developed? (1)
- 36.4. In which year NCP was a member of the United Progressive Alliance. (1)

SECTION – F

Map questions: (2 X 1 = 2)

37. (a) In the given map of India Political locate and label the following places by using the information given below:

- (A) Mark the place associated with the Indigo Planter’s strike
- (B) Mark the place where the Salt Satyagraha was ended.

(b) On the same given political map of India identify the places marked as a , b , c , d , e and f with the help of following information and write their correct names on the lines marked. (6 X 1/2 = 3)

- (a) A type of soil (b) Largest producer of cotton
- (c) A software technology park (d) A type of soil
- (e) Largest producer of tea (f) A software technology park

General Instructions:

1. Question paper comprises Six Sections – A, B, C, D, E and F. There are 37 questions in the question paper. All questions are compulsory.
2. Section A – From question 1 to 20 are MCQs of 1 mark each.
3. Section B – Question no. 21 to 24 are Very Short Answer Type Questions, carrying 2 marks each. Answer to each question should not exceed 40 words.
4. Section C contains Q.25 to Q.29 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60 words
5. Section D – Question no. 30 to 33 are long answer type questions, carrying 5 marks each. Answer to each question should not exceed 120 words.
6. Section-E - Question no from 34 to 36 are case based questions with three sub questions and are of 4 marks each
7. Section F – Question no. 37 is map based, carrying 5 marks with two parts, 37a from History (2 marks) and 37b from Geography (3 marks).
8. 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.
9. In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION – A

(20 x 1 = 20)

- 1) Who printed the first tamil book in 1579?
a) Portuguese missionaries b) Jesuit priests c) Catholic Priests d) Protestant Priests
- 2) Name the country which was transformed from being an international debtor to an international creditor during first world war?
a) USA b) Britain c) Japan d) France
- 3) Look at the picture given below identify the answer from the following options.



Name the emigrants waiting to board the ship

- a) Austrian emigrants b) Irish emigrants c) Spanish emigrants d) Swedish emigrants
- 4) Arrange the following in chronological order:
i) The vernacular Act was passed
ii) The religious reformer Martin Luther wrote Ninety Five theses
iii) The oldest Japanese book printed namely Dlamond Sutra
iv) Kitagawa utamaro born in Edo
options:
a) i, ii, iv, iii b) iv, iii, ii, i c) ii, i, iv, iii d) iii, ii, iv, i
 - 5) Name two states where overgrazing is the main cause of land degradation (1)
a) Rajasthan & Madhya pradesh b) Punjab & Hariyana
c) Jharkhand & Chattisgarh d) Punjab & Jharkhand
 - 6) Which of the following is located in the state of Rajasthan? (1)
a) Corbett National park b) Bandhavgarh National park
c) Periyar tiger reserve d) Sariska wild life sanctuary
 - 7) Which of the following types of species are known as the extinct species? (1)
a) Whose population has declined b) Species whose population level are normal
c) Species with small population d) Species which are not found
 - 8) Identify the incorrect statement from the following:
a) Large societies can follow direct democracy
b) There are seven national parties in our country
c) A political party has four components
d) China is the example of one – party system
 - 9) Name the country, which has more than half of its population lives in poverty.
a) Pakistan b) Bangladesh c) India d) Srilanka
 - 10) Which of the following statement in true: (1)
a) Communist Party of India (CPI) formed in 1925.
b) Kanshi Ram is the leader of BJP.
c) Bahujan Samaj Party (BSP) was formed by Jawaharlal Nehru
d) The symbol of Nationalist congress Party (NCP) is Lion
 - 11) Which one among the following is correctly matched?

- | Column - I | Column - II |
|---------------------------------|---------------|
| a) Bharatiya Janata Party (BJP) | - state party |
| b) two – party system | - 1885 |
| c) Indian National Congress | - USA& UK |
| d) BSP | - elephant |

12) There are two statements marked as Assertion (A) and Reason (R) . Mark your answer as per the options provided below:

Assertion: Democracies are based on political equality

Reason: In actual life, democracies do not appear to be very successful in reducing economic inequalities

Options:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

13) What is the guiding philosophy of the Bharatiya Janata Party?

(1)

- a) Bahujan Samaj
- b) Revolutionary democracy
- c) Integral humanism
- d) Modernity

14) Look at the picture given below. Identify the name of the crop from the following options



- a) Paddy
- b) Maize
- c) Wheat
- d) Jawar

Match the following :

15) Name of the crop - climatic condition

- a) Cotton - i) 21° C - 27°C
- b) Paddy - ii) cool growing & bright sunshine
- c) Sugarcane - iii) <25° C
- d) Wheat - iv) 210 frost free days

Options:

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

16) Which of the following statement is incorrect regarding intensive subsistence farming.

(1)

- a) Intensive subsistence farming is practised in area of high population
- b) It is labour intensive farming
- c) high doses of biological inputs & irrigation
- d) Intensive subsistence is known as “ Jhumming”

17) Identify the correct statement about “Barter system”?

- i) Both parties have to agree to sell & buy each other commodities
- ii) Goods are directly exchanged without use of money
- iii) Money is used as medium of exchange
- iv) Precious metals like gold & Silver are used for exchange

options:

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

18) Fill in the blanks:

Occupation	Reason for needing loan
1. A person employed in government service	Housing loan, Vehicle loan
2. Graduate student who is computer literate	?

Options:

- A) To pursue higher education
- B) To meet a medical emergency in the family
- C) To replace his old auto rickshaw with a new
- D) To build a house

19) Read the given data and find out children of which state have attained maximum elementary school education?

TABLE 1.4 SOME COMPARATIVE DATA ON HARYANA, KERALA AND BIHAR			
State	Infant Mortality Rate per 1,000 live births (2018)	Literacy Rate %	Net Attendance Ratio (per 100 persons) secondary stage (age 14 and 15 years) 2017–18
		2017–18	
Haryana	30	82	61
Kerala	7	94	83
Bihar	32	62	43

Options:

- a) Haryana
- b) Maharashtra
- c) Kerala
- d) Bihar

20) There are two statement marked as Assertion(A) and Reason(R). Mark your answer as per the codes provided below:

Assertion: Organic chemical plants are located near oil refineries. The chemical industry is its own largest Consumer

Reason : Basic chemicals under go processing to further produce other chemical that are used for industrial application

- 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 (4X2=8)

21) Why East India company found it difficult to answer a regular supply of goods for export? (2)

22) What is the most basic out come of democracy? (2)

23) Classify the industry based on investment (or) capital. Define each one with two examples. (2)

(or)
“The economic prosperity of a country depends on the developments of manufacturing industries” – Justify with atleast two points.

24) The land under cultivation has got reduced day by day. Can you imagine its consequences ? (2)

SECTIIION – C (5x3=15)

25) Mention the impact of First world war on agricultural economy? (3)

(or)
What were the advantages of invention of Refrigerated ships?

26) What are the steps taken by the government to conserve flora and fauna of the country? (Any three points) (3)

27) “The earth has enough resources to meet the needs of all but not enough to satisfy the greed of every one person”. How is this statement relevant to the discussion of development? (3)

28) “Non – democratic rulers can be very quick and efficient in decision making and implementation “. Do you think with this feature of non – democratic government is a better form of other government? Explain. (3)

29) What is the main criteria used by the world bank in classifying different countries? What are the limitations of this criteria? If any. (3)

SECTION – D (4x5=20)

30) Explain the steps which were taken by the British government to control the freedom of press in India? (5)

(or)
“Print popularised the ideas of the Enlightenment thinkers” explain.

31) What is credit ? Explain with an example, how credit plays a vital role for the economic development of a country? (5)

(or)
What are the sources of credit? Mention 4 features of each.

32) What are the functions of a political party? Explain any five functions. (5)

(or)
Find out the correct name of the party, state (or) symbol and write it.

State	Party	Symbol
i) ----	Rashtriya lok samta party	Fan
ii) Sikkim	-	Umbrella
iii) ---	Maharashtrawadi Gomantak party	Lion
iv) Mizoram	Mizoram people’s conference	---
v) Assam	All India United Democratic Front	-----

33) NTPC – has set a proactive approach for preserving the natural environment and resources? How is it possible? Explain. (5)

(or)
The challenge of sustainable development requires control over industrial pollution. Substantiate the statement with examples.

SECTION – E (Case based Questions)

34) Read the source given below and answer the question that follows: (3x4=12)

(Manuscripts before the Age of print)

India had a very rich and old tradition of handwritten manuscripts in Sanskrit, Arabic, Persian, as well as in various vernacular languages. Manuscripts were written or copied on palm leaves or on handmade paper. Pages were beautifully illustrated. They would be either pressed between wooden covers or sewn together to ensure preservation. Manuscripts continued to be produced till well after the introduction of print, down to the late nineteenth century.

Manuscripts, however, were highly expensive and fragile. They had to be handled carefully, and they could not be read easily as the script was written in different styles. So manuscripts were not widely used in everyday life. Even though pre-colonial Bengal had developed an extensive network of village primary schools, students very often did not read texts. They only learnt to write. Teachers dictated portions of texts from memory and students wrote them down. Many thus became literate without ever actually reading any kinds of texts

- 34.1) How manuscripts were copied in India? (1)
34.2) How long manuscripts were produced in India? (1)
34.3) Why were not manuscripts widely used in everyday life? (2)

35) Read the given extract and answer the following questions:

Soil is the most important renewable natural resource. It is the medium of plant growth and supports different types of living organisms on the earth. The soil is a living system. It takes millions of years to form soil upto a few cm in depth. Relief, parent rock or bed rock, climate, vegetation and other forms of life and time are important factors in the formation of soil. Various forces of nature such as change in temperature, actions of running water, wind and glaciers, activities of decomposers etc. contribute to the formation of soil.

Chemical and organic changes which take place in the soil are equally important. Soil also consists of organic (humus) and inorganic materials

On the basis of the factors responsible for soil formation, colour, thickness, texture, age, chemical and physical properties, the soils of India are classified in different types.

- 35.1) Which is the most important renewable natural resources? (1)
35.2) What are the important factors for soil formation? (1)
35.3) What are the major types of soil in India? (2)

36) Read the given extract and answer the following questions:

AITC Launched on 1st January 1998, under the leader ship of Mamata Banerjee . Recognised as a national party in 2016. The party's symbol is flowers and grass. Committed to secularism and federalism. Has been in power in west Bengal since 2011. Also has a presence in Arunachal Pradesh, Manipur and Tripura . In the General Elections held in 2019, it got 4.07 percent votes and won 22 seats, making it the fourth largest party in the Lok Sabha.

- 36.1) When was the party launched? (1)
36.2) In which year the party was recognised as a national party? (1)
36.3) Name the state, in which AITC has its presence? (1)
36.4) What is the symbol of AITC?

SECTION – F (Map skill based questions) (2x1=2)

37.a) On the given political map of India locate and label the following places by using the information given below:

- A) A place where the congress session was held in December 1920 . (1)
B) A place where the cotton mill workers started their strike in 1918. (1)

37.b) On the same outline map of India six features named 1, 2, 3, 4, 5, 6 are marked . Identify them with the help of given information write their names on the lines provided.

- 1) A soil type
2) Leading producer of coffee
3) Software technology park
4) A soil type
5) Leading producer of Jute
6) Software technology park

General Instructions:

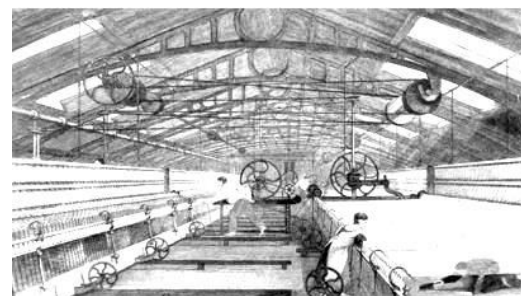
1. Question paper comprises Six Sections – A, B, C, D, E and F. There are 37 questions in the question paper. All questions are compulsory.
2. Section A – From question 1 to 20 are MCQs of 1 mark each.
3. Section B – Question no. 21 to 24 are Very Short Answer Type Questions, carrying 2 marks each. Answer to each question should not exceed 40 words.
4. Section C contains Q.25 to Q.29 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60 words
5. Section D – Question no. 30 to 33 are long answer type questions, carrying 5 marks each. Answer to each question should not exceed 120 words.
6. Section-E – Questions no from 34 to 36 are case based questions with three sub questions and are of 4 marks each
7. Section F – Question no. 37 is map based, carrying 5 marks with two parts, 37a from History (2 marks) and 37b from Geography (3 marks).
8. 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.
9. In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION – A**MCQs****(1 X 20 = 20)**

1. Aim of protestant Reformation was to _____
- (a) Reform Buddhist religion (b) Reform the catholic church
(c) Reform Jewish religion (d) To protest against all reforms

2. The fabled city of gold _____
- (a) El Dorado (b) Sicily (c) Peru (d) Mexico

3. Look at the picture given below. Name the factory which is shown in the picture.
- (a) A spinning factory (b) A fitting shop at a railway works
(c) Lancashire cotton Mill (d) Workers in an iron works



4. Arrange the following in chronological order :
- I. Marco polo , a great explorer , returned to Italy from China
II. Chinese paper reached Europe
III. Johann Gutenberg developed the first – known printing press in Germany
IV. Martin Luther wrote ninety five theses criticizing many of the practices and rituals of the Roman Catholic Church
- (a) I , III , II , IV (b) IV , II , III , I (c) II , I , III , IV (d) III , I , IV , II

5. Complete the following table.

Crop	Season	Temperature	Rainfall	Leading Producer
—	Kharif	25°C	100 cm	West Bengal

- (a) Wheat (b) Rice (c) Sugarcane (d) Tea
6. Rearing of silkworms for the production of silk fibre is known as _____
- (a) Apiculture (b) Horticulture (c) Sericulture (d) Piciculture
7. Match the following:

Column A

–

Column B

- | | | |
|--------------------------|---|---------------------|
| (1) Biotic resources | – | (a) Roads |
| (2) Renewable resources | – | (b) House |
| (3) Individual resources | – | (c) Flora and Fauna |
| (4) National resources | – | (d) Water |

Options:

- (A) 1 – a , 2 – b , 3 – c , 4 – d (B) 1 – c , 2 – d , 3 – b , 4 – a
(C) 1 – c , 2 – b , 3 – d , 4 – c (D) 1 – d , 2 – c , 3 – b , 4 – a

8. Identify the incorrect statement:

- (a) A person who is strongly committed to a party is called as partisan
(b) China adopted one party system
(c) Every party in India has to register itself with the Parliament
(d) The founder of Bahujan Samaj Party was Kanshi Ram

9. Which of the following statements is against the sprit of democracy?

- (a) It enhances the dignity of the individual
(b) It provides method to resolve conflict
(c) It promotes equality among citizens
(d) It does not allow room to correct mistakes

10. Identify the correct statement:

- (a) Indian National Congress was formed in 1858
(b) Bahujan Samaj Party was the last party to become a national level party in India
(c) Communist Party of India believes in Marxism – Leninism.
(d) Bharatiya Janata Party headed the United Progressive Alliance

11. Choose the pair which is correctly matched?

- (A) BJP – Uniform Civil Code
(B) AITC – Mayawati
(C) Communist Party of India – Supports new economic reforms with a human face
(D) BSP – Mamta Banarji

12. There are two statement marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:

Assertion (A) : Democracies allow room to correct mistakes

Reason (R) : Democratic government can be reelected

- (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

13. Which of the following countries has half of its population living in poverty

- (a) Ukraine (b) Libya (c) Bangladesh (d) Pakistan

14. Choose the correctly paired option from the following crops:

- | | | |
|------------|---|---------------------------|
| (a) Jute | — | (i) Food and Fodder crops |
| (b) maize | — | (ii) Leguminous crops |
| (c) Pulses | — | (iii) Rainfed crop |
| (d) Jowar | — | (iv) Golden fibre |

- (A) $(a - iv)$, $(b - i)$, $(c - ii)$, $(d - iii)$ (B) $(a - iii)$, $(b - ii)$, $(c - i)$, $(d - iv)$
(C) $(a - ii)$, $(b - iii)$, $(c - iv)$, $(d - i)$ (D) $(a - i)$, $(b - iv)$, $(c - iii)$, $(d - iv)$

15. Plantation , Pasture lands , Ponds , Water in wells are some examples of

- (a) Individual resources (b) Community owned resources
(c) National resources (d) International resources

16. Which one of the following is not correct?

- (a) Corbett national park – Assam
(b) Sundarbans national park – West Bengal
(c) Sariska wild life sanctuaries – Rajasthan
(d) Periyar Tiger resources – Kerala

17. Choose the correct Answer:

The Indian Wild Life (Protection) Act was implemented in which year?

- (a) 1927 (b) 1972 (c) 1792 (d) 1727

18. The following table shows the proportion of adults (aged 15 – 49 years) whose BMI is below normal

$BMI < 18.5$ $^{hg}/m^2$. It is based on a survey of various states. Look at the table and answer the following

questions

States	Male %	Female %
Kerala	9	10
Karnataka	16	22
Madhyapradesh	29	29
All states	20	23

Compare the nutritional level of people in the above three states.

- (a) Nutritional level of people in Karnataka is much better than the people of Kerala
(b) Nutritional level of people in both Karnataka and Kerala are equal
(c) Nutritional level of people in Kerala is much better than the people of Karnataka
(d) Nutritional level of people in Kerala and Karnataka is much better than that the people of Madhyapradesh

19. Rama is working in a neighbouring field. She works as an agricultural labourer there are several months in the year when Rama has no work and needs credit to meet the daily expenses. Expenses on sudden illnesses of functions in the family are also met through loans. In this situation whom do you think would Rama get credit

- (a) Money lenders in her village (b) Agricultural trader
(c) Formal sector of credit (d) Landowner on whose land she works

20. In the question given below there are two statement marked as Assertion (A) and Reason (R). Read the statements and choose the correct option:

Assertion (A) : Banks and cooperative societies need to lend more

Reason (R) : Cheap and affordable credit is crucial for the country's development

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true and is 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

Very short answer questions:

(4 X 2 = 8)

21. How was proto – industrialisation different from factory production?

22. Why is democratic government a better choice? Give two reasons

23. Mention the steps taken by the government of India to modernize agriculture. Give any four points.

24. What are the two Prime factors for the location of aluminium smelting industry?

(or)

Classify the manufacturing industries on the basis of source of raw material? Define each one with two examples.

SECTION – C

Short answer based questions:

(5 X 3 = 15)

25. What were corn laws? Why were the corn laws abolished?

(or)

How did silk routes link the world? Explain with three suitable examples

26. Explain the measures to control soil erosion? Give any three points.

27. Write the types and distribution of forest resources in India.

28. How is 'Democratic Government a legitimate government? Explain with examples

29. Explain the terms : (i) Infant Mortality Rate (ii) Literacy Rate (iii) Net Attendance Ratio

SECTION – D

Long answer based questions:

(4 X 5 = 20)

30. How had the earliest printing technology developed in the world? Explain with example.

(or)

Why were the printed books popular even among illiterate people.

31. What do the banks do with the deposits which they accept from the public?

(or)

What are terms of credit? What is collateral? Why do lenders ask for collateral while lending?

32. What are the major functions of political Parties? explain

(or)

What are the major challenges which the Political Parties face in the present era?

33. The economic strength of a country is measured by the development of manufacturing industries? Justify with at least five points.

(or)

Suggest any five measures to control environmental degradation caused by industries

SECTION – E

Case based questions:

(3 X 4 = 12)

34. Read the source given below and answer the question that follows:

Within this system a close relationship developed between the town and the countryside. Merchants were based in towns but the work was done mostly in the countryside. A merchant clothier in England purchased wool from a wool stapler, and carried it to the spinners; the yarn (thread) that was spun was taken in subsequent stages of production to weavers, fullers, and then to dyers. The finishing was done in London before the export merchant sold the cloth in the international market. London in fact came to be known as a finishing centre.

(34.1) In the above passage what does the words "Within this system" refer to?

(34.2) What is the meaning of stapler?

(34.3) Who were fullers?

(34.4) Which place was known as a finishing centre?

35. Read the given extract and answer the following questions:

Average Income

While 'averages' are useful for comparison, they also hide disparities

For example, let us consider two countries, A and B. For the sake of simplicity, we have assumed that they have only five citizens each. **Based on data given in Table 1.2, calculate the average income for both the countries.**

TABLE 1.2 COMPARISON OF TWO COUNTRIES						
Country	Monthly incomes of citizens (in Rupees)					Average
	I	II	III	IV	V	
Country A	9500	10500	9800	10000	10200	
Country B	500	500	500	500	48000	

Will you be equally happy to live in both these countries? Are both equally developed? Perhaps some of us may like to live in country B if we are

assured of being its fifth citizen but if it is a lottery that decides our citizenship number then perhaps most of us will prefer to live in country A. Even though both the countries have identical average income, country A is preferred because it has more equitable distribution. In this country people are neither very rich nor extremely poor. On the other hand most citizens in country B are poor and one person is extremely rich. Hence, while average income is useful for comparison it does not tell us how this income is distributed among people.

- (35.1) Both the countries have identical average income. Yet country A is preferred. Why?
- (35.2) Calculate average income for country A and country B
- (35.3) What is the limitations of averages?
- (35.4) How is average income calculated?

36. Read the given extract and answer the following questions:

Muhammad Yunus is a famous economist of Bangladesh. He received several international honours for his efforts to promote economic and social development for the benefit of the poor. He and the Grameen Bank he started jointly, received the Nobel Peace Prize for the 2006. In February 2007, he decided to launch a political party and contest in the parliamentary elections. His objective was to foster proper leadership, good governance and build a new Bangladesh. He felt that only a political party different from the traditional ones would bring about new political culture. His party would be democratic from the grassroots level.

The launching of the new party, called Nagarik Shakti (Citizens' Power), has caused a stir among the Bangladeshis. While many welcomed his decision, some did not like it. "Now I think Bangladesh will have a chance to choose between good and bad and eventually have a good government," said Shahedul Islam, a government official. "That government, we hope, would not only keep itself away from corruption but also make fighting corruption and black money a top priority.

- (36.1) Which bank was started by Muhammad Yunus?
- (36.2) Name the political Party which was launched by Yunus.
- (36.3) In which year yunus received Nobel Peace Prize?
- (36.4) Muhammad Yunus is a famous_____

SECTION – F

Map Skill Based Questions:

(2 + 3 = 5)

- 37. (a) On the outline map of India locate and label the following places:
 - (A) Mark the place associated with Jallianwala Bagh Incident
 - (B) Mark the place associated with Indian National Congress Session which was held in December 1920
- 37. (b) On the same given political map of India identify the places marked as *a* , *b* , *c* , *d* , *e* and *f* with the help of following information and write their correct names on the lines marked.
 - (i) A major sugarcane producing state
 - (ii) The major jute producing state
 - (iii) Type of soil
 - (iv) A software technology park
 - (v) A software technology park
 - (vi) A type of soil
