

General instructions:

- i) 15 minute prior reading time 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 following passage carefully:

1) In this jet age, everyone is interested in making easy money. Thanks to the advancement in science and technology, these days life has become more easy and comfortable than earlier with a lot of domestic gadgets as well as instantaneous food recipes available in the market. This has resulted in making the people develop a mind-set to have anything immediately without waiting for even at the traffic signals.

2) Most of us want results quickly. We want to reach the top immediately and get worked up when things go wrong. Perseverance and patience are forgotten words. We get upset, frustrated, and angry when a skill or activity requires us to put in a lot of effort and time. We get dejected and want to give it up. Things should be easy.

3) Life is too short and there is not enough time to do all the things we want to. We tend to compare with others and get upset when they seem to be doing well and start believing God is being kind to them and not to us. And so, we give up. But such thinking serves no purpose. For it doesn't solve the problem.

4) Success, real success and happiness come to those who have a 'bread-making attitude. I am taking for those who are willing to knead the dough, wait for hours for it to rise only to punch it down and knead some more, wait for another couple of hours for it to rise again, then bake it before it is ready to be eaten. Nothing is instantaneous. For every endeavour – whether in the area of career, academics, music, sports, relationships, physical fitness or even in spirituality – it is a long arduous journey.

5) We can get results only if we are willing to spend time, put in painstaking effort and have faith. If we don't accept this difficult but true fact of life, our lives will be far from being happy and fulfilling. For we may not make that extra effort which can change the course of life dramatically for our benefit.

6) However, if we just pause to analyse what we are doing, we still realise how much time we are wasting, searching for such magical solutions which simply do not exist. We actually save time when we stop this futile search and accept the proven methods of treading the straight and narrow path however difficult it may seem initially.

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

A) What has been credited in the passage for our easier and more comfortable life?

B) According to the passage, choose the correct statement from the following:

- i) Advancement in science and technology has resulted in the mind set to have things at their pace.
- ii) Advancement in science and technology has resulted in the mind set to have things instantly and fast.
- iii) Advancement in science and technology has resulted in the mind set to have things slowly and patiently
- iv) Advancement in science and technology has resulted in a give – up attitude

C) List 1 ways in which we can save our time as advised by the author. (i) _____

D) Choose the prerequisites to get the desired results in life as per the passage:

- i) With perseverance and pain staking efforts
- ii) With utmost faith in mutual understanding
- iii) With deviated mind and fluctuations
- iv) By greasing the palms of others

E) Success, real success and happiness come to those who have a 'bread – making attitude'. The bread – making attitude' tells that :

- i) We should be absolutely inactive
- ii) it requires a skill in household chores.
- iii) We should remain idle in order to taste success
- iv) We should be a man of patience in order to taste success

F) Nothing in life is instantaneous. The underlined word can be replaced by the word _____ in the passage.

G) Select the best option from the following that can help us reach the top in life.

- i) Perseverance and patience
- ii) Science and Technology
- iii) Dejection and frustration
- iv) Analysis and magical solution

H) The author has stated the example of 'bread – making attitude' to make us _____

I) We can only get the desired results if we do not waste time trying for the same thing again and again.
(True / False)

J) Most of us want results quickly. This shows that we are _____

II. Read the passage given below:

1) Research from the Publishers Association has shown that films based on books take 44% more at the box office revenue in the UK and 53% more worldwide than original screenplays. The report explores what impact a book has when adapted for film and TV.

2) The report reads: "Published material is the basis of 52% of top UK films in the last 10 years, and accounts for an even higher share of revenue from these leading performers, at 61% of UK box office gross and 65% of worldwide gross." The Hollywood adaptation of "My Cousin Rachel" was shown to have a significant impact on the sales of the Daphne Du Maurier thriller. The sales of the book in 2017 alone accounted for 23% of all sales since 1992.

3) The research suggests that adapted films tend to perform better, because films can "leverage the popularity" of well-known books through an existing audience. Films adapted from books also tend to have a richer, more fully-developed story to draw on.

In terms of TV adaptation, it was revealed that a quarter of dramas were based on literary sources and attracted a 56% larger share of the audience than those based on original scripts. Fourteen of the 35 high end series produced in the UK in the period between January and September 2017 were based on books, compared to seven based on true stories or historical events and five based on pre-existing films or TV stories.

4) In the case of the 2016 BBC broadcast of "The Night Manager", research revealed that while the novel was in circulation for over 25 years, 82% of the copies it sold were in 2016 and 2017. Sales of the paper back edition remained strong in 2017 even after the series went off the air.

5) In conclusion, the report states that "there is a strong two-way relationship between publishing and the wider creative economy, wherein a successful adaptation often has spill-over effects and gives a substantial boost to the sales of the original book.

Based on your understanding of the passage, answer the questions:

(10marks)

- i) According to the research, the films based on books have greater success because ____.
- A. people like to see the characters from the books on screen.
B. the films get the advantage of the fame of the books.
C. it takes less effort for people to watch films than read books.
D. the films get a ready-made script from the books.
- ii) The purpose of the researchers by Publishers Association was to study the ____
- iii) Why, according to the research, the films based on books have greater success?
- iv) Select the correct option to complete the given sentence
In the year 2017, the maximum serials in UK were based on ____
- A) Books B) Film stars C) Writers D) Public
- v) Select the option listing what the given sentence refers to. 'Films adapted from books also tend to have a richer, more fully-developed story to draw on.'
- 1) The plot and the storyline of such films are better.
2) The characters are likely to be more vivid.
3) The production of such films is meant for the rich and famous.
4) The settings and costumes are adapted from the book.
5) The making of such films require the author to write a sequel.
- A. (1), (3) and (4) B. (2), (3) and (5) C. (1), (2) and (5) D. (1), (2) and (4)
- vi) There is a strong two – way relationship between films and the wider creative economy. (True/False)
- vii) Films adapted from books have a ____ content
- viii) This passage lists an example proving that TV dramas based on literary works have ____
- Select the correct option:
- A) Increased the immediate sales of the book
B) Increased the sales of the book during the first screening
C) had no immediate impact on the sales of the book
D) had very little impact on the sales of the book
- ix) Complete the given analogy correctly with a word from the passage:
Suggest : recommends : _____ : important
- x) Film can **leverage** the popularity of well. Known books. State the meaning of the underlined word

SECTION – B (Grammar)

(10marks)

III) Attempt ANY TEN of the given questions:

1) Choose the correct options to fill in the blanks to complete the passage.

Kashmir Valley (i) _____ be heaven on Earth. It has (ii) _____ as a Valley of violence today with constant terror and other unlawful activities.

- i) a) is called b) is considered to c) was termed to d) was defined to
ii) a) come to be known b) been c) always been d) never been

- 2) Fill in the blank by choosing the correct option.
The swimming pool _____ at 9 o'clock and _____ at 18 : 30 everyday
a) is opening / is closing b) open / close c) has opened / has closed d) opened / closed
- 3) Complete the given sentence with correct option:
The Olympic games _____ place every four years.
(a) are taking (b) take (c) have taken (d) took
- 4) Fill in the blank with the correct tense:
Look! The man _____ to open the door of your car.
a) has been trying b) tried c) tries d) is trying
- 5) Complete the sentence correctly.
We usually _____ vegetables in our garden but this year we _____ any
a) grow / aren't growing b) grow / weren't growing
c) grow / had not grown d) grow / don't grow
- 6) The following paragraph has not been edited. There is one error in each line. Identify the error and write its correction against the correct blank number. The first one has been for you
- | | | | |
|--|------|-------|------------|
| My father shall insist on taking greens everyday | eg. | Error | Correction |
| Children may consume it regularly | i) | Shall | would |
| otherwise they should suffer from | ii) | _____ | _____ |
| iron deficiency. Elders will also take it | iii) | _____ | _____ |
| everyday but there are some individuals | | | |
| who do not like it. | | | |
- 7) He took _____ side in the argument two of his best friends between the two brothers
a) neither b) every c) either d) none
- 8) I would like to purchase _____ salt, please.
a) many b) some c) more d) much
- 9) The police _____ the matter.
a) is investigating b) were investigating c) had investigating d) will investigated
- 10) Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter.
Subject : Permission to participate in Half – Marathon.
Sir.
It is a matter of great pleasure that the authorities of our school has _____ (decide) to take part in the half – marathon organized by your reputed NGO.
- 11) Identify the error in the given sentence about electricity and supply the correction.
Electricity is express by the amount of charge flowing through a particular area in unit time.
Use the given format for your response

Error	Correction
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- 12) Report the dialogue between Rajeev and his dad, by completing the sentence:
Rajeev: Dad, will you gift me a laptop?
Dad: Not now, wait till your class 12 board results.
Rajeev asked his dad if he would gift him a laptop. Negating, Dad asked Rajeev _____

SECTION – B (Creative writing skills) (10 marks)

- IV) 1) Attempt any one from A and B given below: (5marks)
A) "There have been increased reporting of cases of domestic violence during the period of nation wide lockdown . This shows a grave scenario that being forced to stay indoors is proving to be harmful the mental health of many people . Write a letter in 120 – 150 words to the editor of a dairy local and create awareness about this issue. Suggest ways to curb the problem. You are Sanpreet /Sonali of 12 – B Preet Vihar , Lucknow.
(or)
B) You are Manjula Raman, Principal of Gita Public School, Baradari, Jalandhar. You come across an advertisement of a landscaping firm specializing in building green houses and also developing golf courses. Write a letter in 100-120 words to the manager of Green With Us, enquiring about their services and discounts.
- IV) 2) Attempt any one from A and B given below: (5marks)
A) Read the following excerpt taken from an article that appeared in the magazine section of a local daily.
"A recent study found that given the pressure of studies and addiction to the Internet and television, children are sleeping less than the required eight hours."

Given below are some findings of the study. Taking help from the clues, write an analytical paragraph for your school magazine

The pressure of studies spending time on social media internet surfing hampered growth	watching television sleeping less at night inattentive and sleepy during daytime affected development
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(or)

B) Read the following excerpt from an article in a weekly journal:

“There is 480% increase in death rate in the last 24 years due to violence . An educated youth is one way to assist efforts to understand crime and reduce violence. The information shows the alarming increase in the cases of death due to violence in the recent years”.

Write an analytical paragraph in 120 words on the role of education and youth in establishing peace in society.

SECTION – C (Literature)

40marks

V) Reference to the context:

1) Attempt any one the extracts given:

(5marks)

A) “Coorgi homes have a tradition of hospitality, and they are more than willing to recount numerous tales of valour related to their sons and fathers. Coorg regiment is one of the most decorated in the Indian Army, and the first Chief of the Indian Army, General Cariappa, was a Coorgi. Even now, Kodavus are the only people in India permitted to carry firearms without a licence. The river Kaveri obtains its water from the hills and forests of Coorg. Mahaseer -a large freshwater fish-abound in these waters. kingfishers dive for their catch, while squirrels and langurs drop partially eaten fruit for the mischief of enjoying the splash and the ripple effect in the clear water. Elephants enjoy being bathed and scrubbed in the river by their mahouts” .

i) How is the environment of Coorgi?

- a) Mechanically beautiful b) traditional and serene c) beautiful but dangerous d) polluted

ii) Choose the option that lists the set of statement that are not true according to the given extract:

- 1) Coorgi follows a tradition of hospitality
2) Coorgi regiment is one of the most famous in the Indian Army
3) The river kaveri takes the water from the hills and forest of coorg
4) Animals enjoy the flora and fauna of coorg
5) Elephants hate being scrubbed by mahouts
6) Kodavas carry firearms without a license
7) Coorg is a destructive place

- a) (1) and (2) b) (3) and (4) c) (5) and (7) d) (6) and (5)

iii) Choose the option that correctly classifies fact / s(F) and opinion / s (O) of the statements below:

- 1) Coorgi is the pride of Indian Army
2) Animals can survive where in the freshwater of Coorgi
3) Coorgi should be visited with great safety.
4) Coorgi and its people are highly hospitable
a) F – (1), (3), (4) and O – (2) b) F – (1), (2), (4) AND O – (3)
c) F- (1), (2) (3) and O – (4) d) F - (2), (3), (4) and O – (1)

iv) Which word does ‘mischief’ NOT correspond to?

- a) funny b) bad behaviour c) calmness d) naughtiness

v) What special privilege has been accorded to the people of Coorg?

(or)

B) “I was really worried about Tricki this time. I had pulled up my car when I saw him in the street with his mistress and I was shocked at his appearance. He had become hugely fat, like a bloated sausage with a leg at each corner. His eyes, bloodshot and rheumy, stared straight ahead and his tongue lolled from his jaws.

i) A child should consume which of the following food item so as to be healthy:

- a) burger b) sandwich c) French fries d) balanced diet food

ii) Why was ‘he’ worried?

Because _____

iii) The statement that is True about the shocking attitude of author relates to:

- a) Tricki’s condition in the street b) Tricki’s eating habit
c) Tricki’s immature behaviour d) Tricki’s greed

iv) Tricki was obese as he:

- a) had a huge fat body b) Couldn’t walk properly
c) had poor physical condition d) was studious by nature

v) The extract uses the phrases “Shocked at his appearance”. Which of the following expressions is incorrect with respect to the word “shocked”?

- a) at his looks b) at the market c) at his surprise d) at his behaviour

2) Attempt any one the two given extracts :

(5marks)

A) “ I think I could turn and live with animals,
they are so placid and self-contain'd,
I stand and look at them long and long”.

i) The word “placid” in the line “they are so placid and self contained” means the same as _____

- a) Calm b) Aggressive c) Vigilant d) Horrifying

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

iii) The stanza suggests a contrast between _____ and _____

- a) life and chaos b) anger and peace c) forest and city life d) humans and animals

- iv) What is the post NOT likely to say to the animals?
a) "Get lost!" b) "Can i join you?" c) "Let me be a part of you", d) "How peaceful!"
v) Which word can be an appropriate synonym for "placid"?

(or)

B) "Some say the world will end in fire

Some say in ice

From what I've tasted of desire

I hold with those who favour fire"

i) In the given line "I hold with those who favour fire". The synonym for the word 'favour' is :

- a) rejects b) service c) aligns d) end

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

iii) What is the similarity between fire and ice?

They both _____

iv) What does the stanza is NOT LIKELY to represent?

- a) human emotion b) desire c) jealousy d) happiness

v) What do fire and ice represent?

VI) Answer any four of the following in about 40 – 50 words each: (12marks)

i) How did Valli behave with other passengers in the bus? What does this tell you about her?

ii) Would you agree with Lencho calling the post office employees "a bunch of crooks"?

iii) How does the poet show that the tiger is unhappy in the Zoo? (A tiger in the Zoo)

iv) What according to Mandela has been the impact of decades of oppression?

v) Anne's teacher expressed his annoyance differently. What did he ask her to do?

VII) Answer any TWO of the following in about 40 – 50 words: (6marks)

i) Why were the two boys in London surprised and fascinated? (Foot prints without feet)

ii) Bholi's heart was throbbing with a new hope and a new life. What does the phrase "a new hope and a new life" mean in this context?

iii) How is Ebright exposed to the idea of real science?

VIII) Answer any ONE of the following in 100 – 120 words: (6marks)

i) Lomov and Natalya have a complex relationship. Reflecting on their character traits, Imagine a dialogue between Natalya and Chubukov where they are discussing about Lomov's prospects as Natalya's future husband.

(or)

Critically examine Valli's journey to the city as her introduction into the mystery of life and death.

IX) Answer any ONE of the following in 100 – 120 words: (6marks)

i) Ausable was very different from other secret agents. Critically examine the given statement with reference to "The Midnight Visitor".

(or)

ii) Matilda says, " I am vexed not to have a jewel, nothing to adorn myself with. I shall have such a poverty – stricken look. I would prefer not to go to this party".

Although Matilda aspired for more in life, but the absence of round realities made her perpetually dissatisfied. Elaborate based on the chapter "The Necklace".

General Instructions:

1. 15-minute prior reading time allotted for Q-paper reading.
2. The Question Paper contains THREE sections READING, GRAMMAR & WRITING and LITERATURE.
3. Attempt question based on specific instructions for each part.

SECTION A - READING SKILLS

20

I. Read the passage given below.

10

1. Hobbies help us grow as a person. The best way to have a new hobby is to try something new. All of us are unique, and this is the reason why our hobbies and interests are different. Once we find an activity we are passionate about, we can explore that activity more. When you get hooked, you will realize that your hobby has become an integral part of your life. Having a hobby that we enjoy brings us joy and refreshes us. Hobbies help us to manage our leisure and unplanned time more productively. It also affords you the opportunity to learn new skills in your work. But these are not the only benefits of having a hobby.
2. It feels great to be skilled and good at something, doesn't it ? And this is what that makes you confident. It can take some time to develop your hobby so that you may be able to tell that you are skilled. But, the journey of experiencing your hobby is very rewarding in itself. With the exposure to different types of activities these days, it doesn't matter which activity you choose. Whether you are pursuing a craft, sports, puzzles, or skill development, your hobby should be a diversion and a passion. Simultaneously, if your hobby gives you a sense of purpose, then you will be more confident about challenging yourself in your hobby and help you prepare for learning new things at work.
3. Hobbies give you an opportunity to enhance your life. Hobbies allow you to de-stress yourself while remaining mentally productive. Having hobbies promotes better health and may lower the risk of having high blood pressure. Enjoying a few hours of your hobby a week can also reduce the risk of depression and dementia. Hobbies refocus your mind on to something that you enjoy doing. Hobbies that include physical activities create chemical changes in your body that help to reduce stress.

Even if it doesn't involve physical activities, you can still reap the benefits of having a hobby. Getting a short break from work and doing something you are passionate about can rejuvenate your mind and help prepare you to handle challenges in the future in a better way.

4. Hobbies may provide an opportunity for you to socialize with people and that can be an additional benefit for your overall well-being. You can connect with people who enjoy doing the same things that you do. You can meet new people, discuss your hobby and get connected to a bigger circle that may even help you turn your hobby into your profession. The internet provides numerous groups and forums to connect with people that enjoy doing the same things that you want to do.
5. Some hobbies require creativity and if you develop creativity through your hobby, it can be beneficial. Creativity can help you experience new things at school and work. The skill of being creative is essential in today's world.

Based on your understanding of the passage, answer the questions given below.

- i. When a person gets hooked on a hobby, he realises that :
 - a) it has become an integral part of our life.
 - b) it has much more benefits than we realised.
 - c) it is much more enjoyable to have a hobby.
 - d) it is quite essential for us to learn some skills through our hobbies.
- ii. No matter which sort of hobby you are pursuing, be it a craft, sports, puzzles, or skill development, your hobby should be :
 - a) useful for you in the long run.
 - b) a skill that improves your present circumstances.
 - c) a diversion and a passion.
 - d) followed through till the end.
- iii. The journey of experiencing a hobby is quite :
 - a) challenging for a person.
 - b) rewarding in itself.
 - c) demanding in itself.
 - d) inspirational for a person.

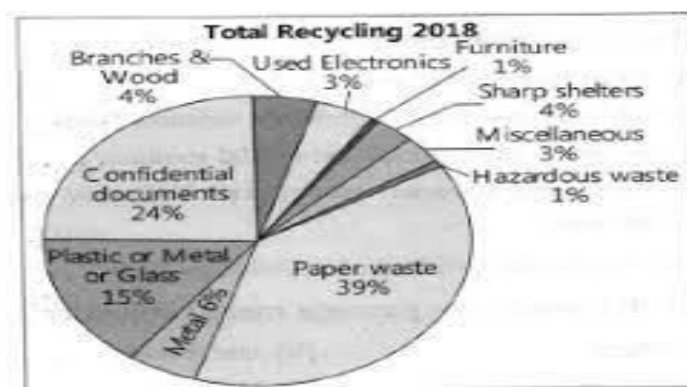
iv. State any one way through which hobbies enhance your life?

- v. Getting a hobby means having a short break from work and doing something you are passionate about which can
- a) give you a peace of mind from all the other problems of daily hectic life and make you feel refreshed.
 - b) help you enhance and improve your skills and push you forward on your path to success.
 - c) make you enjoy and appreciate your life much more as you are happy pursuing what you love.
 - d) rejuvenate your mind and help prepare you to handle challenges in the future in a better way.
- vi. List any two benefits of having a hobby.
1. _____ 2. _____
- vii. What is essential in today's world?
- viii. Give an appropriate title for the passage.
- ix. Supply 1 point to justify the following:
Hobby provides you with an opportunity to socialise with people.
- x. Choose an option that is clearly a synonym of the word 'hooked'.
a) opposed b) indifferent c) willing d) captivated

II. Read the passage given below.

10

1. Conference series LLC Ltd organises a conference series of 1000+ global events inclusive of 300+ conferences, 900+ upcoming and previous symposiums and workshops in USA, Europe and Asia with support from 1000 more Scientific societies and publishes 700+ open access journals which contain over 30000 eminent personalities, reputed scientists as Editorial board members.
2. Recycling and Waste Management Convention 2018 proudly invites contributors across the globe
to 9th World Convention on Recycling and Waste Management during October 22-23, 2018 in Osaka, Japan, which includes prompt keynote presentations, oral talks, poster presentations and exhibitions. We are delighted to say that it is the 9th World Convention on Recycling and Waste Management which will be held in a beautiful city of Osaka, Japan and hence we invite you all to attend and register.
3. 9th World Convention on Recycling and Waste Management is mainly based on the theme "Advocating Waste Disposal and Recycling Practices for Clean and Green Environment." We warmly welcome all the participants - leading scientists, researchers and scholars of the world to attend the convention. We provide a platform for young researchers and students to present their research through oral presentations through which they can develop a foundation for collaboration among young researchers.
4. The organising committee aims at setting a platform for all the budding scientists and researchers to present their real-time work and share their views and aspects related to the theme of the conference. The organising committee is gearing up for an exciting and informative conference programme including plenary lecture, symposia, workshops on a variety of topics, poster presentations and various programmes for participants from all over the world.



Based on your understanding of the passage, answer the questions given below.

- i. Infer one reason for the following, based on information in the passage.
Waste management and recycling it.
- ii. Select the appropriate option to fill in the blanks. _____ has been considered as the second nature to us.
 - a) Sorting of waste
 - b) Recycling of waste
 - c) Waste management
 - d) Implementing steps framed and deployed in convention
- iii. Complete the following analogy correctly with a word/phrase from paragraph 2:
Delhi : India :: Tokyo : ____
(Clue : Delhi is capital of India, similarly Tokyo is capital of...)
- iv. What theme is being highlighted in the given passage?
 - (a) Efficient means of reducing garbage
 - (b) Various techniques to be employed to recycle the goods
 - (c) Efficient ways of waste disposal
 - (d) Both (b) and (c)
- v. Which of the following notion in the conference has been emphasised to be deployed?
 - a) Waste disposal management
 - b) Waste management
 - c) Recycling of goods
 - d) Reshaping Earth's future
- vi. Fill in the blank by selecting the correct option. According to the pie-chart, Branches & wood has been recycled at the rate of _____.
 - a) 1%
 - b) 24%
 - c) 4%
 - d) 3%
- vii. Substitute the word 'present' with ONE WORD similar in meaning, in the following sentence from paragraph 3:
We provide a platform for young researchers and students to **present** their research...
- viii. List any two points that the given data represents.
- ix. Which activity contributes collectively towards paper waste recycled percentage?
- x. What has been considered as an efficient means to reduce landfill area?
 - a) Sorting of waste
 - b) Recycling or composting waste
 - c) Both (a) and (b)
 - d) None of these

III. SECTION B- GRAMMAR

10

Attempt **ANY TEN** of the following questions. 10

- i. Fill in the blank by choosing the correct option to complete the sentence.
The boys _____ to my lecture since 8 O'clock this morning.
 - a) were listening
 - b) have been listening
 - c) had been listening
 - d) None of these
- ii. Read the conversation between a mother and her daughter. Complete the sentence by reporting daughter's reply correctly.
Mother: Why are you looking so worried? Daughter: My exams are approaching.
Mother asked her daughter why she was looking very worried. The daughter replied that ____.
- iii. Select the correct option to fill in the blank for the given line.
I _____ rather die than join the gang of terrorists.
 - a) could
 - b) should
 - c) would
 - d) can

- iv. Select the option that identifies the error and supplies the correction for the following line:
A little political thinkers think that liberty andequality can't go together.

Option No.	Error	Correction
(a)	can't	couldn't
(b)	think	thinks
(c)	A little	Some
(d)	go	goes

- v. Complete the given sentence, by filling in the blank with the correct option:
They met you at night after you_your work.
a) had finished b) have finished c) finished d) will finish
- vi. Fill in the blank by using the correct form of the verb in the bracket.
Chris, in addition to his brother Zack,____(play)hockey on Saturday.
- vii. Report the dialogue between a doctor and a patient,by completing the sentence:
Doctor : You should take this medicine every day. Patient : Should I take it before dinner or after dinner?Doctor : No, you should take it after breakfast.
- The Doctor advised the patient that he should take that medicine every day. The patient further asked if he should take it before dinner or after dinner. The doctor replied negatively and then said that_____.
- viii. Identify the error in the given sentence and supply the correction.
Some guys like to fights on even playing grounds, andsome guys like to cheat.
Use the given format for your response.

Error	Correction

- ix. Transform the following direct speech into reportedspeech:
He asked, "Will you be coming?"
- x. Fill in the blank by choosing the correct option, tocomplete the sentence.
My class teacher told me that I_work hard.
a) shall b) could c) can d) should
- xi. Select the correct option to complete the narration ofthe dialogue between Radha and Shikha.
Radha : Do you know how to swim?
Shikha : Yes I know. I have learnt it during thissummer vacation.
- Radha asked Shikha if/whether she knew how to swim. Then Shikha replied in affirmative and alsoadded that__.
- (a) she had learnt it during the summer vacation
(b) she has learnt it during the summer vacation
(c) she have learnt it during the summer vacation
(d) she had learn it during the summer vacation
- xii. Identify the error and supply the correction, for the following sentence:
Every people went to welcome the Indian Cricketteam.

Error	Correction

IV. SECTION B- CREATIVE WRITING SKILLS 10

All the names and addresses used in the questions are fictitious. Resemblance, if any, is purely coincidental.

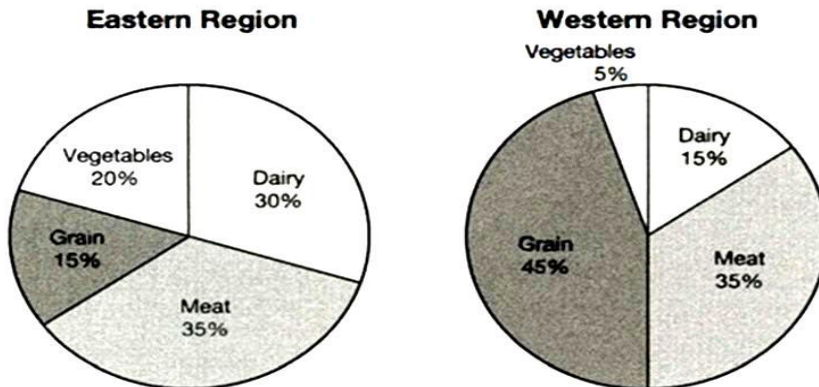
1. **Attempt ANY ONE from A and B given below. 5**
- A. Write a letter to the Editor of "The Times of India", Delhi expressing your concern over the increase in the rate of road accident, rash driving and overcrowded road transport. You are Priya/Priyanshu living at B-47 Avas Vikas, Mayur Vihar, New Delhi.

Or

B. You are Ms. Monika Pundhir, the Sports Instructor in Army Public School, Agra. The Principal has asked you to place an order for buying necessary sports equipment required. You decide to place an order to M/s Sethi Sports, Jalandhar. Write a letter placing an order for the same in 100-120 words.

2. Attempt ANY ONE from A and B given below. 5

A. The charts below show agricultural production in two different regions of the country. Write an analytical paragraph in 100-120 words by selecting and reporting the main features, and making comparisons wherever relevant.



B. Given below is a newspaper report on the state of cancer prevailing in India. You have been asked to write an analytical paragraph on '**Cancer - a silent killer**'. Taking information from the clipping given below together with your own ideas, write this paragraph in 100-120 words.

"In India, cities are more cancer-prone than rural areas. In the early 1990's, we expected one out of 10- 15 urban Indians to get cancer in their life -time, that is every second or third family would have to face this disease. This is partly due to high levels of benzene in the air and also that the metros are exposed to high levels of pesticides in their foods. In order to check the steady growth of cancer in the country, the Government shall have to give priority to preventive action. At the same time measures to undertake improvement in facilities for the treatment of cancer shall have to be adopted."

SECTION C- LITERATURE 40

V. Reference to the Context

10

1. Attempt ANY ONE of two extracts given.5

"It was only when I began to learn that my boyhood freedom was an illusion, when I discovered as a young man that my freedom had already been taken from me, that I began to hunger for it. At first as a student I wanted freedom only for myself, the transitory freedoms of being able to stay out at night, read what I pleased and go where I chose. Later, as a young man in Johannesburg, I yearned for the basic and honourable freedoms. "

(Nelson Mandela : Long Walk to Freedom)

- The title that best suits this extract is
 - Freedom for everything
 - Knowledge about Freedom
 - Significance of Freedom
 - Realisation of Freedom
- Why do you think the speaker mentions some freedoms as 'transitory' ?
- Choose the option that best fits the usage of the word 'illusion' as used in the extract.
 - He was never able to get past the illusion.
 - The illusion I experienced was quite intriguing.
 - A large mirror in the room creates an illusion.
 - I was living under the illusion that this is possible.
- The speaker says, 'at first as a student I wanted freedom only for myself.' Why do you think he only thought about himself?
 - He didn't want to think about the freedom denied to others.
 - He was being selfish and was only bothered about himself.

- (c) He didn't think that freedom denied to him was important for others.
- (d) He was too young to realise that freedom was denied to others as well.
- v. Fill in the blank with ONE WORD only.
- The speaker's belief about freedom, since ____ proved false. It was not until the speaker grew up to be a young man when it dawned on him that he was deprived of freedom.

Or

THINK-TANK: Mirror, mirror, in my hand. Who is the most fantastically intellectually gifted being in the land?

OFFSTAGE VOICE: (after a pause) You, sir.

THINK -TANK: (smacking mirror) Quicker. Answer quicker next time. I hate a slow mirror. (He admires himself in the mirror.) Ah, there I am. Are we Martians not a handsome race? So much more attractive than those ugly Earthlings with their tiny heads. Noodle, you keep on exercising your mind, and someday you'll have a balloon brain just like mine.

NOODLE: Oh, I hope so, Mighty Think-Tank. I hope so.

THINK -TANK: Now, contact the space probe. I want to invade that primitive ball of mud called Earth before lunch.

NOODLE: It shall be done, sir. (He adjusts levers on switchboard. Electronic buzzes and beeps are heard as the curtains open.)

(*The Book that Saved the Earth*)

- i. Choose the option that lists the most appropriate meaning of Think-Tank from those given below.
 - (a) A tank that helps you think deeper than an average person, if you use its contents regularly.
 - (b) Non-stop flow of ideas from a fixed source about one particular issue.
 - (c) A pool of ideas and solutions to various problems via an individual, group or organisation.
 - (d) A method by way of which people think collectively to identify stray thoughts among them.
- ii. The playwright places certain words and sentences in brackets in the given extract. List any two ways these benefit both the director and actors.
 1. _____
 2. _____
- iii. Choose the option that correctly categorizes the phrase "(after a pause)" based on the dialogue given above.

a) aside	b) stage direction	c) narration	d) setting
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- iv. Choose the option that gives you fits the example of an irony from the ones given below.
 - (a) "Who is the most fantastically intellectually gifted being in the land?"
 - (b) "I hate a slow mirror."
 - (c) "Noodle, you keep on exercising your mind, and someday you'll have a balloon brain just like mine."
 - (d) "I want to invade that primitive ball of mud called Earth before lunch."
- v. Complete the analogy by selecting the suitable word from the text.
 spinning : top :: rotation : ____
 (Clue : *Spinning is the movement of a top, similarly rotation is the movement of the...*)

2. Attempt **ANY ONE** of two extracts given.5

If strolling forth, a beast you view,
 Whose hide with spots is peppered,
 As soon as he has leapt on you,
 You'll know it is the Leopard.
 Twi'll do no good to roar with pain,
 He'll only leap and leap again.
 (*How to Tell Wild Animals*)

- i. Choose the option listing the stanza that would follow the given extract.
 1. The leopard stalks on silent paws. With deadly armor of fangs and claws.
He lies in his tree perch through out the day. Sleeping and resting the hours away.
 2. A spotted leopard in a banyan tree, kept his yellow carnivore-ic eyes on me.
I knew better than to move fast or try to flee. His eyes narrowed, but I refused to see.
How fast that cat was chasing after me. If I can just get to that tall tall.....
 3. His claws and paws will make you forget, If you're in a dream or reality,
And you'll feel clawed and pawed. I bet, The peppered pounce a certainty.

This a beast that runs and strikes fast, If you're caught you sure won't last.

4. The leopard and the lion chose to become friends, For they were all proud of claws on their paws, They each glorified one another for their mighty, Ability to live on meat of other fauna throughout a year, They each admired one another for running speed, They each remained firm and loyal to one rule; Lions don't eat leopards neither leopards eat lions.

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

ii. Given below are four examples of activities that Jasmeet does. Choose the option that correctly demonstrates 'strolling'.

- a) Jasmeet runs with a great speed after being chased by a dog.
b) Jasmeet walks in the garden, relaxing while listening to his favourite song.
c) Jasmeet skids sharply on the icy skate rink.
d) Jasmeet rushes to switch off the water pump in the backyard.

iii. State whether the following statement is TRUE or FALSE:

The poet asks the reader to hide on seeing the leopard.

iv. The repetition used in "he'll only lep and lep again" is an example of.

v. Choose the option that matches with the rhyme scheme of the extract.

- 1) Proud loud child wild jungle mingle 2) Wild jungle child mingle loud proud
3) Wild proud child loud jungle mingle 4) Loud jungle wild child mingle proud

- a) option 1 b) option 2 c) option 3 d) option 4

(OR)

The fog comes

on little cat feet.

It sits looking

over harbour and

city on silent haunches

and then moves on

i. List any two qualities of the cat that Carl Sandburg applies to the fog?

1. _____ 2. _____

ii. Which one/s of the following applies to the given lines?

1. Personification is a literary device where you give an animal, object or natural phenomenon, qualities or abilities that only a human can have.
2. Transferred epithet is a literary device when an adjective usually used to describe one thing is transferred to another.
3. Imagery is the language used by poets and writers to create visual representation of ideas in the minds of the readers.
4. Oxymoron is a figure of speech in which contradictory terms appear side by side.

- a) 1 and 4 b) 2 and 3 c) Only 1 d) Only 3

iii) Pick the option that includes an image of the cat on its haunches.



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

iv. Choose the option that does not list movement of the fog.

1. It stole in on us like a foot-pad somewhere out of the sea and air... E.J. Pratt
2. A fog drifts in, the heavy-laden Cold white ghost of the sea- Sara Teasdale
3. The fog it tricks the eye The wonder of the veil of white under the clear blue sky. K.C. Cox
4. comes gliding, rolling in at ground level, pressing its white featureless face against... -R.H. Grenville

a) Option 1

b) Option 2

c) Option 3

d) Option 4

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

manacle : hands :: fetter : _____

(Clue : A manacle is a shackle for the hands, and a fetter is a shackle for the...)

VI Answer ANY FOUR of the following in about 40-50 words each. 4 x 3 = 12

i. Why does the postmaster send money to Lencho? Why does he sign the letter 'God'?
(A Letter to God)

ii. What special characteristic of Mijbil did Maxwell learn after he took him to the bathroom?
(Mijbil the Otter)

iii. Why did the Buddha ask Kisa Gotami to bring a handful of mustard seeds?
(The Sermon at Benares)

iv. Describe the method Anne Gregory suggested in order to prove that she is loved for who she is.
(For Anne Gregory)

v. "Fire and Ice" project a pessimistic outlook. Comment.

VII . Answer ANY TWO of the following in about 40-50 words each. 2 x 3 = 6

i) Why was Tricki an uninteresting object for other dogs at the surgery? (A Triumph of Surgery)

ii) Henry unintentionally saved Ausable's life. Briefly comment (The Midnight Visitor)

iii) How did the Loiseles react when they realized that the necklace had been lost?

VIII. Answer ANY ONE of the following in about 100-120 words. 6

i. Valli was sensitive, but at the same time, she was fearless and quite determined. Think of another character from your textbook, First Flight, who displayed similar character traits. Compare and contrast the lives of Valli and the other character.

Or

ii. Explain the phrase "the forest that was empty all these days". After reading the poem "The Trees", for whom do you think are the forests needed? Imagine you are a tree in a forest, what values would you like the humans to learn from the tree?

IX Answer ANY ONE of the following in about 100-120 words. 6

X And in her smiling eyes was the right of deep satisfaction that an artist feels when he is contemplating the completion of his masterpiece." Imagine you are Bholi's teacher. You are overwhelmed with a sense of satisfaction to see the conversion of 'Bholi' to 'Sulekha'. Express your feelings in the form of a diary entry.

(or)

i. Give a character-sketch of Hari Singh.
(The Thief's Story)

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 following passage carefully:

1. Listening is the ability to accurately receive and interpret messages in the communication process. One of the greatest gifts any of us can ever receive is the gift of listening. It is also one of the greatest gifts we can ever give. Unfortunately it appears to be a lost art. We live in a world where everyone is talking but few are listening. What often passes for listening is simply one person pausing to collect their thoughts for their next soliloquy.

2. Hearing refers to the sounds that you hear whereas listening requires more than that: it requires focus. Listening means paying attention not only to the story but how it is told the use of language and voice and how the other person uses his or her body. In other words it means being aware of both verbal and non-verbal messages. Your ability to listen effectively depends on the degree to which you perceive and understand these messages.

3. Listening is a difficult task. Like every skill the more you do it the better you get. Listening can be developed through practice or lost if not used regularly. Good listeners focus on what they are hearing. They pause to think about what they've heard before responding. They ask questions because they want to know the answers not just to keep the conversation going

4. So often we are distracted with other things. We try to listen while continuing to work on the computer or watch television. To be fully present means we eliminate these distractions and focus exclusively on the other person. It takes great effort to be fully in the moment leaning forward with your ears—and heart—open. Words are only part of the communication. Sometimes we need to experience the other person's feelings to really understand. We need to listen with our heart as well as our mind. We must repeat back what the other person has said. When we do this—and do it accurately—we communicate that we understand. It also gives us an opportunity to re-calibrate our understanding if we have misunderstood something. Plenty of people are good talkers. Few are good listeners. If you develop the latter skill you will find yourself invited into amazing conversations that wouldn't otherwise happen.

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

(10x1 =10)

i) According to the passage listening appear to be a lost art because we live in a world where _____

ii) Choose the options with the sentences that are NOT TRUE according to the passage:

I) Words are only the part of communication

II) Lots of people are good listeners

III) Listening refers to the voice that you hear

IV) Good listeners focus or what they hear

V) Listening is a tough task

VI) Hearing requires no focus.

a) II, III, VI

b) III, V, VI

c) I, III, IV

d) I, IV, VI

iii) List any two aspects of a good listener

iv) Select the option that best captures the central idea of the passage from the following.

a) Do more listening than talking

b) Never stop listening

c) Learn by talking

d) Listening is talking

v) Choose the correct option: We need to experience the other person's feelings:

a) to really understand

b) to be the part of the communication

c) to recalibrate our understanding

d) to keep the conversation going

vi) What our ability to listen effectively depends on?

vii) Fill in the blank:

we need to _____ with our heart as well as our mind

viii) "Hearing" different from 'listening' as:

a) Hearing eliminates distraction; Listening gives us an opportunity to recalibrate our understanding.

b) Hearing is the ability to receive message; Listening is the ability to interpret message

c) Hearing refers to the sounds that you hear; Listening means paying attention not only to the story, but how is it told.

d) all the above.

ix) Listening refers to observing the sounds you hear True / False.

x) Complete the given analogy correctly with a word from the passage 4.

Public speakers : Actors _____: Trampolines.

II) Read the passage given below :

1. Millions of tons of small waste from plastic bags bottles and clothes in the world’s oceans present a serious threat to human health and marine environment. This is the stark warning issued by the U.N. in a report on the most dangerous environmental problems facing the world today. Global plastic production has increased considerably in recent years nearly by 3 8%.
2. A poor waste management means when we have finished with our takeaway containers cigarette butts and party balloons they are worn down into trillions of even smaller particles by the waves. Therefore there is a growing presence of these micro plastics in the world’s oceans.
3. It was estimated in 2010 that millions of tons of plastic was washed into the seas and has since shown up in the stomachs of whales plankton and other marine life. Richard Thompson professor of marine biology said that in laboratory experiments there is proof that micro plastic can cause harm to organisms.
4. More than a quarter of all fish now contain plastic according to a recent study which analysed the guts of fish sold in California. Scientists fear that chemicals in plastics and also chemicals which attach themselves to plastic in natural environment could cause poisoning and many disorders in marine life if consumed in huge quantities.
5. Even humans could be adversely affected by the plastic. People could even be breathing in plastic micro particles suspended in the air with the risk of harmful effect on the lungs similar to car fumes.
6. Volunteers around the world collect trash and tally up what they find on the full in Ocean’s conservancy’s Annual International coastal cleanup . The result item - by – item, location – by location Ocean Trash Index provides the only snapshot of marine debris littering coasts and waterways around the world, according to Ocean conservancy.

2, 117, 931 Cigarettes	1, 140 222 Food wrappers / containers
1, 065, 171 Plastic Beverage Bottle	1, 019, 902 Plastic Bags
958, 893 Caps/ Lids	692, 767 Cups / Plates / Cutlery
611, 048 Straw / Stirrers	521, 750 Glass Beverage Bottles
339, 875 Beverage cans	298, 332 Paper Bags

7. Boyance Slat, a Dutch student has developed a technology that could sift dangerous plastic particles out of the ocean and sell them for profit or re-cycling. Richard Thompson recommended that people avoid using products with micro beads and to make sure they dispose of all plastic products in an appropriate way by re-cycling if possible

Based on your understanding of the passage, answer the given questions: (10X1=10)

- i) Select the option that is true for the two statements given below:
- 1) more than a quarter of all fish now have plastics present in them

2) Millions of tons of plastic waste is present in the world’s oceans

a) 1 is the result of 2

b) 1 is the reason for 2

c) both a1 and 2 are true

d) 1 contradicts 2
- ii) Fill in the blanks
- _____ provides the only snapshot of marine debris littering coasts and waterways
- iii) Through what does the cigarette butts and party balloons worn down into smaller particle?
- iv) We can find out that more than a quarter of all fish continued plastics in them by:
- a) The serious warning issued by the UN in a report on the most dangerous environmental problems facing the world today.

b) Collecting trash and tallying up what they find each day.

c) laboratory experiments performed by Richard Thompson a professor of marine biology

d) analyzing the fish sold in California.
- v) Complete the following with a phrase from paragraph 4
- opinion

Reason

Examined carefully and methodically
- vi) Choose the correct set of statement which is NOT TRUE
- I) Plastic could have similar effects like car fumes

III) Chemicals which attach themselves to plastic in natural environment could cause poisoning in marine life

III) Humans will never be adversely affected by the plastic

IV) In , 2001 millions of tons of plastic was washed into the sea.
- vii) What amount of paper bags in the index are diffused into the oceans?
- viii) Fill in the blank with the correct option:
- There are _____ beverage cans found in the Index
- a) 337, 865

b) 339, 875

c) 339, 445

d) 333, 347
- ix) Richard Thompson has recommended to use product that has no micro beads of plastic into them True/ False
- x) How can the technology developed by Beyonce slat help to curb the plastic issue?

SECTION – B (GRAMMAR & WRITING) (10m)

III) Attempt any ten of the following questions:

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

Rohit: I am surprised to see you here in Delhi. When did you come?

Shruti : I came here yesterday

Rohit was surprised to see Shruti in Delhi and asked when she had come there and Shruti replied that

iv) Select the option that identifies the error and supplies the correction:

Option No	error	correction
A	live	lives
B	a	an
C	where	when
D	is	was

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

a) will take b) would pass c) will have taken d) will be taking

Priya: Hey Smita, Are you free this weekend?

Smita: Yes, I have no plans for the weekend.

To response Priya's question, Smita said that _____

Tobacco is a second biggest cause of death in the world

Error	Correction
-------	------------

It _____ a lot in the state where she has gone to work

a) rains b) raining c) would rain d) will rain

Are you happy now?

Respected Sir.

Through the columns of your esteemed newspaper, I will to _____(draw) the public's attention towards child labour.

Education _____ the blank mind with good things

a) fill b) will fill c) fills d) filled

Aditi said to Riya, " Please give me a glass of water"

a) Aditi advised Riya to help her

b) Aditi requested Riya to give her a glass of water

c) Aditi suggested Riya to give her a glass of water

d) Aditi screamed at Riya for giving her water.

A) You are Karthi / Karthika of St Indrapuram, Bangalore. You bought a new VIP washing machine from M/S Rama Electronic, commercial street, Bangalore last week. Later you found that the machine makes an unbearable noise and the motor tears delicate fabrics. Write a letter to the dealer complaining about the same and requesting him to change the machine as early as possible.

(or)

B) You are distressed to see the number of young children begging at traffic signals and working at construction sites. You feel that more needs to be done to help them and laws to protect their rights must be enforced strictly by the authorities. Write a letter in 100 120 words to the editor of 'The Tribune, highlighting the seriousness of the situation and the need to create awareness on the issue. You are Astha/Ashton, 56 Malaprabha, Sector 5, Chandigarh.

A) Attempt the following question in 100-120 words. The following excerpt is taken from "The Times" on the ill-treatment of animals and steps to prevent it.

"It is distressing to see the attitude of people towards animals and find that cases of cruelty towards animals are increasing. The following clues represents the attitude of people towards animals"

- 50% of people believe that animals are meant to be used to provide them help
- To help them earn more
- Exploit animals for selfish interest
 - ❖ 35% of people feel that they do not need to do anything to change the scenario.
 - ❖ They are worse than criminals
 - ❖ Witness the cruel acts, say nothing
- 15% of people believe themselves to be superior

- Feel they need to keep animals as slaves
- Have no empathy towards animals

As Simran / Dhruv, write the analysis of the above statement in 100-120 words.

B) Computer are being used more and more in education. Is it a positive trend or negative? Write a paragraph in about 100 – 120 words, to analyse the given argument:

For :

- ❖ More information than ever before
- ❖ In depth knowledge
- ❖ No need to carry heavy bags
- ❖ Online exams and home work
- ❖ Notes taken or easily

Against:

- ❖ Deprive real human interaction
- ❖ Lack of interaction and empathy with fellow students
- ❖ Encourages passive life style
- ❖ Accessibility to wrong information and wrong application of it

SECTION – C (LITERATURE)

(40 Marks)

V) 1 Attempt any ONE of the TWO extracts given :

1. A) Coorgi homes have a tradition of hospitality, and they are more than willing to recount numerous tales of valour related to their sons and fathers. The Coorg Regiment is one of the most decorated in the Indian Army, and the first Chief of the Indian Army, General Cariappa, was a Coorgi. Even now, Kodavus are the only people in India permitted to carry firearms without a licence. The river, Kaveri, obtains its water from the hills and forests of Coorg. Mahaseer—a large freshwater fish—abound in these waters. Kingfishers dive for their catch, while squirrels and langurs drop partially eaten fruit for the mischief of enjoying the splash and the ripple effect in the clear water. Elephants enjoy being bathed and scrubbed in the river by their mahouts.

i) How is the environment of Coorgi?

- a) mechanically beautiful b) traditional and serene c) beautiful but dangerous d) polluted

ii) Choose the option that lists the set of statement that are not true according to the extract.

- 1) Animals enjoy the and fauna of Coorgi 2) Elephants hate being scrubbed by mahouts
3) Kodavus carry firearms without a license 4) Coorgi is a destructive place
a) 2 and 4 b) 1 and 2 c) 3 and 4 d) 2 and 3

iii) Which word does 'mischief' not correspond to?

- a) funny b) bad behavior c) calmness d) naughtiness

iv) The river takes the water from _____

v) What special privilege has been accorded to the people of coorg?

B) Brilliant scientist though he was, Griffin was rather a lawless person. His landlord disliked him and tried to eject him. In revenge Griffin set fire to the house. To get away without being seen he had to remove his clothes. Thus it was that he became a homeless wanderer, without clothes, without money, and quite invisible until he happened to step in some mud, and left footprints as he walked.

i) How did Griffin revenge upon his landlord?

- a) setting his home ablaze b) setting fire to his home
c) Burning down his home d) all the above

ii) What does the word 'wanderer' mean?

- a) one who roams with a reason b) one who roams aimlessly
c) one who eats aimlessly d) none of these

iii) How did Griffin make himself invisible?

- a) By removing his hat b) By removing his goggles
c) By removing his clothes d) none of these

iv) What does the phrasal verb 'get away' mean?

- a) To laugh b) To escape c) To accept d) To reject

v) The given extract was written by :

- a) H. G. Wells b) Robert Frost c) Walt Whitman d) Vallikkannan

2. Attempt any ONE of the TWO extracts given :

(5 marks)

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

i) What is the synonym for the word 'perish' in the given line "But if it had perish twice"

- a) decay b) delay c) cold d) live

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

iii) Why would the ice be sufficient?

- a) to make the world cold b) to make the weather chilly
c) to end the world d) to make the earth look blue

iv) What would not destroy the world?

- a) war b) hate c) love d) desire

v) Identify the poet.

a) Carolyn wells

b) Robert Frost

c) Robin Klein

d) James Herriot

B) (I am an orphan, orphan, roaming the street.
I pattern soft dust with my hushed, bare feet.
The silence is golden, the freedom is sweet.)

i) Why does Amanda want to be an orphan?

- 1) Because she is tired of the constant nagging and wants to be left alone
- 2) Because she hates to be around her parents as they are very strict and overprotective
- 3) Because she is brought up by her teacher and she doesn't have parents
- 4) Because she wants to live a carefree life without any binding rules and restrictions

- a) 1 and 2 b) 3 only c) 2 and 4 d) 1 and 4

ii) What does hushed feet mean in the extract?

- a) Amanda is standing still with her bare feet
- b) Amanda has wounded her bare feet
- c) Amanda is making plans with her soft bare feet
- d) Amanda is making patterns in the dust very softly and quietly with her bare feet

iii) Which word is the antonym of bare?

- a) to tolerate b) uncover c) robed d) exposed

iv) Identify the figure of speech used in the line, 'silence is golden, freedom is sweet'.

- a) Personification b) Alliteration c) Metaphor d) Transferred epithet

v) What does the extract tell about Amanda's state or mind?

- a) she is depressed b) she is annoyed
c) She yearns for freedom d) She is having mood swings

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

- i) Using evidence from the chapter 'A letter to God', state why postmaster signed the letter as 'God'?
- ii) What happened when the young seagull dived at the fish picked up by his mother?
- iii) How did the Buddha teach Kisa Gotami the truth of life?
- iv) How does the poet show that the tiger is unhappy in the zoo?
- v) What colour is the young woman's hair? What does she say she can change it to? Why would she want to do so? (For Anne Gregory)

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

- i) Was Tricky suffering from any ailment in reality? If not, then what made him inactive and lethargic?
- ii) How did 'Travels of Monarch x' change Ebright's life?
- iii) How did Bholi's teacher play an important role in changing the course of Bholi's life?

VIII. Answer any one of the following in about 100 – 120 words: (1x6=6)

- i) "You Lomovs have had lunacy in your family, all of you". In the light of this statement by Chubukov. Develop a conversation between Natalya and her father if she reminded him of the proposal that Lomov brought for her.

You may begin as:

Natalya: Papa please What are you doing?

He is here for to ask for my hand in marriage. Agree to him on all that he says.

Chabukov: Dear Lard! How can I.....

- ii) Critically examine Valli's journey to the city as her introduction into the mystery of life and death. (Madam rides the Bus)

IX. Answer any one of the following in about 100 – 120 words: (1x6=6)

- i) "But I knew that Anil's face, when he discovered the theft, would show only a touch of sadness. Not for the loss of money but for the loss of trust."

All this while, Hari Singh was conscious about the seriousness of his act. Elaborate

(or)

- ii) "No legacy is so rich as honesty? (William Shakespeare)

Metilda lost her friend's necklace and ruined her life in the process. Justify the given quote in the context of the lesson "The Necklace". How do you think the lesson reflects the importance of honesty?

JAWAHAR HIGHER SECONDARY SCHOOL – NEYVELI

CLASS: X

FIRST FULL PORTION EXAMINATION – (2022 – 2023)

DATE: 20.01.2023

MATHEMATICS

MARK: 80

TIME : 3 hrs

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. If P is prime, then HCF and LCM of P and $P + 1$ would be
 (a) $HCF = P, LCM = P + 1$ (b) $HCF = P(P + 1), LCM = 1$
 (c) $HCF = 1, LCM = P(P + 1)$ (d) None of these
2. 4 Bells toll together at 9.00 am. They toll after 7, 8, 11 and 12 seconds respectively. How many times will they toll together again in the next 3 hours?
 (a) 3 (b) 4 (c) 5 (d) 6
3. A quadratic polynomial whose zeroes are -3 and -4 is
 (a) $x^2 + x - 12$ (b) $x^2 - x - 12$ (c) $x^2 + 7x + 12$ (d) $x^2 - 7x + 12$
4. If the sum of the zeroes of the polynomial $2x^2 + 3kx + 3$ is 6, then the value of k is
 (a) 5 (b) 2 (c) -4 (d) 6
5. $ax + by + c = 0$ does not represent an equation of line when
 (a) $a = c = 0, b \neq 0$ (b) $b = c = 0, a \neq 0$ (c) $a = b = 0$ (d) $a = b \neq 0$
6. The value of k for which the equation $x^2 + 4x + k = 0$ has real roots is
 (a) $K = 4$ (b) $K < 4$ (c) $K > 4$ (d) $K \geq 4$
7. In ΔABC , if $DE \parallel BC$, $\frac{AD}{DB} = \frac{3}{4}$ and $AC = 15$ cm then the length AE is
 (a) 45 cm (b) $\frac{23}{7}$ cm (c) 1 cm (d) $\frac{45}{7}$ cm
8. If in triangles ABC and DEF , $\frac{AB}{DE} = \frac{BC}{FD}$, then they will be similar, when
 (a) $\angle B = \angle E$ (b) $\angle A = \angle D$ (c) $\angle B = \angle D$ (d) $\angle A = \angle F$
9. If a line segment AB of length 6 cm is divided internally by a point C in the ratio 3 : 2, then the length AC is
 (a) 4 cm (b) 2.5 cm (c) 2.6 cm (d) 3.6 cm
10. The point which lies on the perpendicular bisector of the line segment joining the points $A(-2, -5)$ and $B(2, 5)$ is
 (a) $(0, 0)$ (b) $(0, 2)$ (c) $(2, 0)$ (d) $(-2, 0)$
11. The value of $\operatorname{cosec}^2 30^\circ \sin^2 45^\circ - \sec^2 60^\circ$ is
 (a) -2 (b) 1 (c) 2 (d) 3
12. If $\sin B = 0.5$, then the value of $3 \cos B - 4 \cos^3 B$ is
 (a) 2 (b) 4 (c) -3 (d) 0
13. The value of $(1 + \cos A)(1 - \cos A) \operatorname{cosec}^2 A$ is
 (a) 0 (b) $\frac{1}{2}$ (c) 1 (d) $\frac{\sqrt{3}}{2}$
14. Write the formula used for calculating the median of a grouped frequency distribution
 (a) $l + \left(\frac{\frac{N}{2} - cf}{f}\right) \times h$ (b) $\frac{N}{2} (l + cf)$ (c) $l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) h$ (d) $l + \left(\frac{cf - \frac{N}{2}}{f}\right) h$
15. If mean of first n odd natural numbers is $\frac{n^2}{81}$, then n is equal to
 (a) 9 (b) 81 (c) 27 (d) 18
16. If a regular hexagon is inscribed in a circle of radius r , then its perimeter is
 (a) $3r$ (b) $6r$ (c) $9r$ (d) $12r$

17. At one end A of a diameter AB of a circle of radius 5 cm , tangent XAY is drawn to circle. The length of the chord CD parallel to XY and at a distance 8 cm from A is
 (a) 6 cm (b) 4 cm (c) 5 cm (d) 8 cm
18. If K , $2K - 1$ and $2K + 1$ are three consecutive terms of an AP , then the value of K is
 (a) 2 (b) 3 (c) -3 (d) 5

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.

19. Assertion (A) : The radii of two cones are in the ratio $2 : 3$ and their volumes in the ratio $1 : 3$. Then the ratio of their heights is $3 : 2$
 Reason (R) : Volume of a cone $= \frac{1}{3} \pi r^2 h$
 (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
20. Assertion (A) : If a die is thrown, the probability of getting a number less than 3 and greater than 2 is zero
 Reason (R) : Probability of an impossible event is zero
 (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

SECTION – B

(5 X 2 = 10)

21. Solve for x and y using elimination method

$$2x - 3y = 7 ; 5x + 2y = 10$$

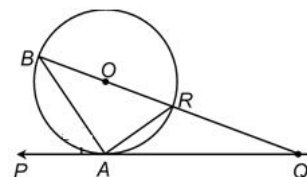
22. If D is a point on the side $BC = 12\text{ cm}$ of a ΔABC such that $BD = 9\text{ cm}$ and $\angle ADC = \angle BAC$, then find the length of AC

23. A quadrilateral $ABCD$ is drawn to circumscribe a circle. Prove that $AB + CD = AD + BC$

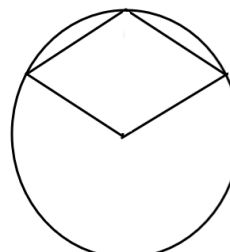
(or)

In figure, O is the centre of the circle, PQ is a tangent to the circle at A . If

$\angle PAB = 58^\circ$, find $\angle ABQ$ and $\angle AQB$



24. $OABC$ is a rhombus whose three vertices A , B and C lie on a circle with centre O . If the radius of the circle is 10 cm , find the area of the rhombus



(or)

Find the area of a quadrant of a circle whose circumference is 22 cm

25. In a triangle ABC , right angled at B , the ratio of AB to AC is $1 : \sqrt{2}$. Find the value of $\frac{2 \tan A}{1 + \tan^2 A}$

SECTION – C

(6 X 3 = 18)

26. Given that $\sqrt{3}$ is irrational, prove that $5 + 2\sqrt{3}$ is irrational
27. If α and β are the zeroes of the polynomial $x^2 + 6x + 9$, then form a polynomial whose zeroes are $-\alpha$ and $-\beta$
28. A car goes uphill at the rate of 30 km an hour and downhill at the rate of 50 km an hour. After 15 hours it has covered 650 km . How long does it go downhill and uphill respectively
29. Prove that $\sqrt{\frac{1+\sin A}{1-\sin A}} = \sec A + \tan A$
30. Two tangents TP and TQ are drawn to a circle with the centre O from an external point T . Prove that $\angle PTQ = 2 \angle OPQ$.
 (or)
 PQR is a right angled triangle right angled at Q . $PQ = 5\text{ cm}$, $QR = 12\text{ cm}$. A circle with centre O is inscribed in ΔPQR , touching its all sides. Find the radius of the circle.
31. Two dice are thrown together. Find the probability that the numbers obtained
 (i) have a sum less than 7
 (ii) have a product less than 16
 (iii) is a doublet of even number

SECTION – D

(4 X 5 = 20)

32. A motor boat whose speed is **20 km/h** in still water, takes **1** hour more to go 48 km upstream than to return downstream to the same spot. Find the speed of the stream.
(or)
(i) Find two consecutive positive integers, sum of whose square is **365**
(ii) Rohan's mother is **26** years older than him. the product of their ages (in years) 3 years from now will be **360**. Find Rohan's present age.
33. Prove that if a line is drawn parallel to one side of a triangle intersecting the other two sides in distinct points, then prove that the two sides are divided in the same ratio.
Using the above theorem prove that a line drawn through the mid – point of one side of a triangle parallel to another side bisects the third side.
34. A gulab jamun, contains sugar syrup up to about **30%** of its volume. Find approximately how much syrup would be found in **45** gulab jamuns each shaped like a cylinder with two hemispherical ends with length **5 cm** and diameter **2.8 cm** .
(or)
A wooden toy rocket is in the shape of a cone mounted on a cylinder. The height of the entire rocket is **26 cm**, while the height of the conical part is **6 cm**. The base of the conical portion has a diameter of **5 cm**, while the base diameter of the cylindrical portion is **3 cm**. If the conical portion is to be painted orange and the cylindrical portion yellow, find the area of the rocket painted with each of these colours. (Take $\pi = 3.14$)
35. The mean of the following frequency table is 50. Find the missing frequencies.

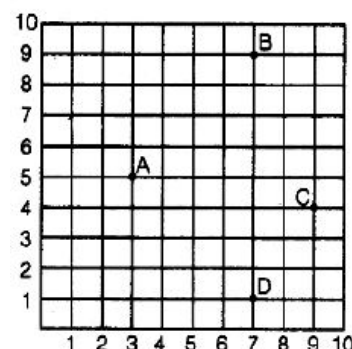
Class	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100	Total
Frequency	17	F1	32	F2	19	120

SECTION – E

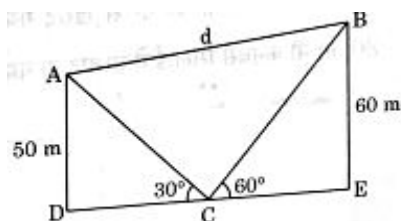
(3 X 4 = 12)

Case study based questions are compulsory:

36. India is competitive manufacturing location due to low cost of manpower and strong technical and engineering capabilities contributing to higher quality production runs. The production of TV sets in a factory increases uniformly by a fixed number every year. It produced 16000 sets in 6th year and 22600 in 9th year.
Based on the above information, answer the following questions:
(a) Find the production during first year.
(b) Find the production during 8th year.
(c) Find the production during first 3 years.
(or)
In which year, the production is Rs 29,200.
37. Students of a school are standing in rows and columns in their school play ground to celebrate their Annual Sport Day. *A, B, C* and *D* are the positions of four students as shown in the figure.
Based on the above information, answer the following questions:
(a) Find the distance between *A* and *C*
(b) Find the coordinates of the midpoint of line segment *BD*
(c) If a point *P* divides the line segment *AD* in the ratio 1 : 2 then find the coordinates of *P*.
(or)
If a point *Q* divides the line segment *BD* in the ratio 1 : 3 then find the coordinates of point *Q*



38. Kite festival is celebrated in many countries at different times of the year. In India, every year 14th January is celebrated as International Kite Day. On this day many people visit India and participate in the festival by flying various kinds of kites.



- In the given figure, the angles of elevation of two kites (Points *A* and *B*) from the hands of a man (Point *C*) are found to be 30° and 60° respectively. Taking $AD = 50\text{ m}$ in and $BE = 60\text{ m}$, find
(a) Find the length of string used for kite *A*
(b) Find the length of string used for kite *B*
(c) Find the distance between two kites
(or)
Find the distance between *D* and *E*

General Instructions:

- This Question Paper has 5 Sections A – E.
- Section A has 20 MCQs carrying 1 mark each
- Section B has 5 questions carrying 02 marks each.
- Section C has 6 questions carrying 03 marks each.
- Section D has 4 questions carrying 05 marks each.
- 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.
- 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
- Draw neat figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.

SECTION – A

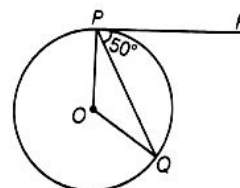
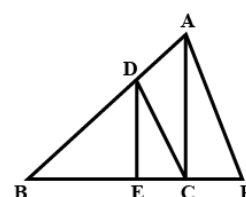
(1 X 20 = 20)

- If p, q are two coprime numbers then $HCF(p, q)$ is
 (a) p (b) q (c) pq (d) 1
- Given that $HCF(26, 91) = 13$ then $LCM(26, 91)$ is
 (a) 2366 (b) 182 (c) 91 (d) 394
- If α and β are zeroes of the polynomial $5x^2 - 7x + 2$ then sum of their reciprocal is
 (a) $\frac{7}{2}$ (b) $\frac{7}{5}$ (c) $\frac{2}{5}$ (d) $\frac{12}{25}$
- If the zeros of the Quadratic Polynomial are 1, 1 then the polynomial can be
 (a) $x^2 + x + 1$ (b) $x^2 - 2x + 1$ (c) $x^2 + 3x + 2$ (d) $x^2 + 2x + 2$
- The distance of the point $P(2, 3)$ from the x – axis is
 (a) 2 (b) 3 (c) 1 (d) 5
- If the n^{th} term of an A.P $-1, 4, 9, 14, \dots$ is 129 find the value of n
 (a) 25 (b) 26 (c) 22 (d) 27
- x – axis divides the line joining $(2, -3)$ and $(5, 6)$ in the ratio
 (a) 1 : 2 (b) 2 : 1 (c) 2 : 5 (d) 5 : 2
- If the radii of two concentric circles are 4 cm and 5 cm then the length of each chord of one circle which is the tangent to the other circle is
 (a) 3 cm (b) 6 cm (c) 9 cm (d) 1 cm
- The sum of the length, breadth and height of a cuboid is $6\sqrt{3}$ cm and the length of its diagonal is $2\sqrt{3}$ cm. The total surface area of the cuboid is
 (a) 48 cm^2 (b) 72 cm^2 (c) 96 cm^2 (d) 108 cm^2
- In the figure below $DE \parallel AC$ and $DF \parallel AE$. Which of these is equal to $\frac{BF}{FE}$?
 (a) $\frac{DF}{AE}$ (b) $\frac{BE}{EC}$ (c) $\frac{BA}{AC}$ (d) $\frac{FE}{EC}$
- In the given figure 'O' is the centre of circle PQ is a chord and the tangent PR at P makes an angle 50° with PQ then $\angle POQ$ is equal to
 (a) 100° (b) 80° (c) 90° (d) 75°
- Given that $\sin \alpha = \frac{1}{2}$ and $\cos \beta = \frac{1}{2}$ then the value of $(\alpha + \beta)$ is
 (a) 0° (b) 30° (c) 60° (d) 90°
- Given that $\sin \theta = \frac{a}{b}$ then $\cos \theta$ is
 (a) $\frac{b}{\sqrt{b^2 - a^2}}$ (b) b/a (c) $\frac{\sqrt{b^2 - a^2}}{b}$ (d) $\frac{b}{\sqrt{b^2 - a^2}}$
- Consider the following frequency distribution

Class	0-5	6-11	12-17	18-23	24-29
Frequency	13	10	15	8	11

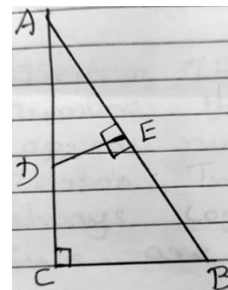
The Upper limit of median class is

- 7
- 17.5
- 18
- 18.5



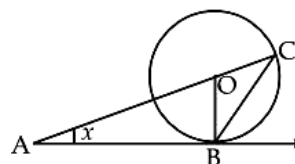
15. In the figure ABC is a right angled triangle, right angled at C $DE \perp AB$.
If $AD = 3 \text{ cm}$ and $DC = 2 \text{ cm}$ and $CB = 12 \text{ cm}$. Find the length of DE .

- (a) $\frac{36}{5}$ (b) $\frac{5}{36}$ (c) $\frac{36}{13}$ (d) $\frac{13}{36}$



16. Savitha has a lamp placed at the centre of her square yard, each side measuring 20 m . The light of lamp covers a circle of radius 10 m on yard. The area of the yard not lit by the lamp is
(a) $400 \pi \text{ sq.m}$ (b) $100 \pi \text{ sq.m}$ (c) $(40 - 10 \pi) \text{ sq.m}$ (d) $(400 - 100 \pi) \text{ sq.m}$
17. The probability that a non – leap year selected at random will contain 53 Sundays is
(a) $\frac{1}{7}$ (b) $\frac{2}{7}$ (c) $\frac{3}{7}$ (d) $\frac{5}{7}$

18. In the given figure angle $OBC = 30^\circ$, the value of x is
(a) 100° (b) 110° (c) 30° (d) 15°



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 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) : If a and b are two coprime numbers then a^3 and b^3 will be coprime numbers
Reason (R) : Two natural numbers are always coprime numbers then their cube are also coprime numbers
20. Assertion (A) : The coordinates of $P(2, 1)$ and x – axis is equidistant from point $A(-2, 0)$ and $B(6, 0)$
Reason (R) : Since $P(2, 0)$ is the midpoint of $A(-2, 0)$ and $B(6, 0)$

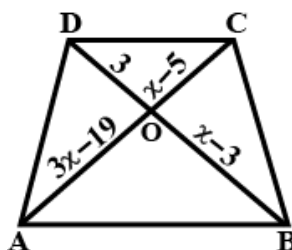
SECTION – B

(5 X 2 = 10)

21. The sum of the digits of a two digit numbers is 8. The number obtained by interchanging the two digits exceeds the given number by 18. Find the number.
22. $ABCD$ is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at O . Show that $\frac{AO}{BO} = \frac{CO}{DO}$

(or)

In the figure $AB \parallel DC$. Find the value of x .



23. Prove that $\frac{\sin^4 \theta + \cos^4 \theta}{1 - 2 \sin^2 \theta \cos^2 \theta} = 1$

24. Prove that the length of tangents drawn from an external point to a circle are equal
(or)

In a circle of radius 21 cm , an arc subtends an angle of 60° at centre. Find area of sector formed by the arc

25. If the circumference of two concentric circle forming a ring are 88 cm and 66 cm respectively. Find the width of the ring.

SECTION – C

(6 X 3 = 18)

26. Prove that $3 + 2\sqrt{5}$ is Irrational
27. Find zeroes of $5x^2 + 10x + 5$ and verify the relation between their zeroes and coefficients of polynomial
28. Two points A and B are on the same side of a tower and in the same straight line with its base. The angles of depression of these points from the top of the tower are 60° and 45° respectively. If the height of the tower is 15 m , then find the distance between these points.

(or)

An aeroplane is flying at a height of 300 m above the ground. Flying at this height, the angles of depression from the aeroplane of two points on both banks of a river in opposite directions are 45° and 60° respectively. Find width of the river. [Use $\sqrt{3} = 1.732$]

29. A metallic cylinder has radius 3 cm and height 5 cm . To reduce its weight a conical hole is drilled in the cylinder. The conical hole has a radius of $\frac{3}{2} \text{ cm}$ and its depth is $\frac{8}{9} \text{ cm}$. Calculate the ratio of the volume of the metal left in the cylinder to the volume of metal taken out in conical shape.

(or)

Solve graphically the pair of linear equations $3x - 4y + 3 = 0$
 $3x + 4y - 21 = 0$

Find the coordinates of the vertices of the triangular region formed by these lines at $X -$ axis. Also, calculate the area of the triangle.

30. Prove that $(\sin \theta + \operatorname{cosec} \theta)^2 + (\cos \theta + \sec \theta)^2 = 7 + \tan^2 \theta + \cot^2 \theta$

31. A bag contains 18 balls out of which x balls are red

(i) If one ball is drawn at random from the bag, what is the probability that it is not red?

(ii) If 2 more red balls are put in the bag, the probability of drawing a red ball will be $\frac{9}{8}$ times the probability of drawing a red ball in the first case. Find the value of x .

SECTION – D

(4 X 5 = 20)

32. CD and GH are respectively the bisectors of $\angle ACB$ and $\angle EGF$ such that D and H lie on sides of AB and FE of $\triangle ABC$ and $\triangle EFG$ respectively. If $\triangle ABC \sim \triangle FEG$ show that (i) $\frac{CD}{GH} = \frac{AC}{FG}$ (ii) $\triangle DCB \sim \triangle HGE$
 (iii) $\triangle DCA \sim \triangle HGF$

(or)

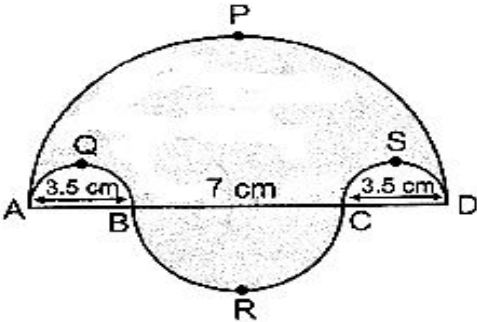
(a) Name the Quadrilateral Formed if any by the following points and give reasons for your answer

(b) Write all the other trigonometric ratio of $\angle A$ in terms of $\sec A$

33. A rectangular park is to be designed whose breath is 3 m less than its length. Its area is to be 4 square metres more than the area of a park that has already been made in the shape of an Isosceles triangle with its base as the breadth of the rectangular park and of altitude 12 m . Find the length and breadth of the rectangular park.

(or)

Find the area of the shaped region in the figure where APD and BRC and CSD are semicircles of diameters 14 cm , 3.5 cm , 7 cm and 3.5 cm respectively. [Use $\pi = \frac{22}{7}$]



34. In a hospital, used water is collected in a cylindrical tank of diameter 2 m and height 5 m . After recycling, this water is used to irrigate a park of a hospital whose length is 25 m and breadth is 20 m . If the tank is filled completely then what will be the height of standing water used for irrigating the park?

35. On annual day of a school 400 students participated in the function. Frequency distribution showing their ages is as shown in the following table.

Age in years	5 – 7	7 – 9	9 – 11	11 – 13	13 – 15	15 – 17	17 – 19
No. of Years	70	120	32	100	45	28	5

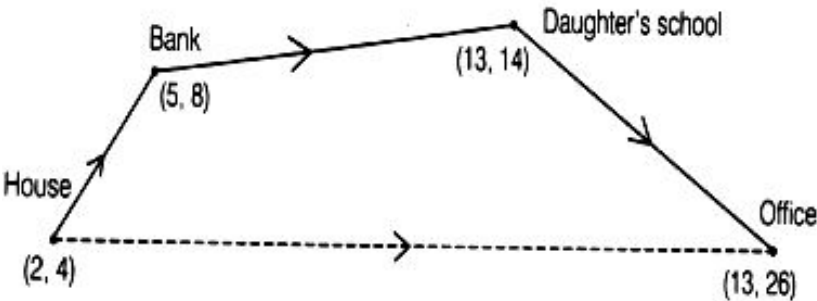
Find mean and median of above data

SECTION – E

(3 X 4 = 12)

Read the following text and answer the following questions:

36. Ayush starts walking from his house to office. Instead of going to the office directly, he goes to a bank first, from there to his daughter’s school and then reaches the office. What is the extra distance travelled by Ayush in reaching his office?



- (i) What is the distance between house and bank?
- (ii) What is the distance between daughter's school and bank?
- (iii) What is the distance between house and office?

(or)

What is the total distance travelled by Ayush to reach the office?

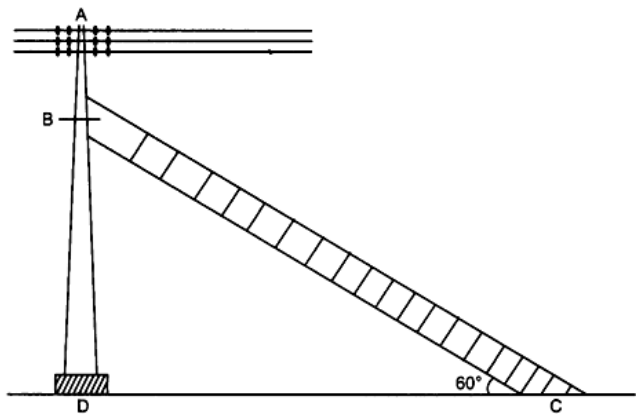
37. Your friend Veer wants to participate in a 200 m race. He can currently run that distance in 51 s and with each day of practice it takes him 28 less. He wants to do in 31s



- (i) Write the given situation in A.P
 - (ii) What is the minimum number of days he needs to practice till his goal is achieved
 - (iii) If n^{th} term of an A.P is given by $a_n = 2n + 3$ then common difference of an A.P
- (or)

The value of x, for which 2x, x+ 10, 3x + 2 are three consecutive terms of an AP

38. An electrician has to repair an electric fault on the pole of height 5 m. He needs to reach a point 13m below the top of the pole to undertake the repair work.



- (i) What is the Length of ?
 - (ii) What should be the length of ladder, when inclined at an angle of 60° to the horizontal?
 - (iii) How far from the foot of the pole should he place the foot of the ladder?
- (or)

If the horizontal angle is changed to 30° then what should be the length of the ladder?

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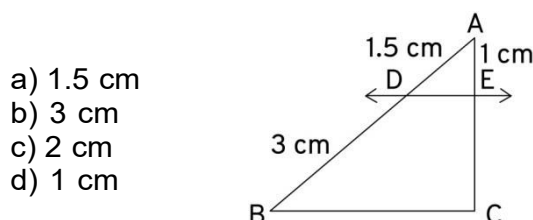
SECTION – A

Section A consists of 20 questions of 1 mark each.

1. If the sum of the zeroes of the quadratic polynomial $kx^2 + 2x + 3k$ is equal to their product, then k equals:
 a) $\frac{1}{3}$ b) $-\frac{1}{3}$ c) $\frac{2}{3}$ d) $-\frac{2}{3}$
2. If one zero of the quadratic polynomial $x^2 + 3x + k$ is 2, then the value of k is
 a) 10 b) -10 c) -7 d) -2
3. The 2 digit number which becomes $\frac{5}{6}$ th of itself when its digits are reversed. The difference in the digits of the number being 1, then the two digits number is
 a) 45 b) 54 c) 36 d) None of these
4. For which value(s) of p , will the lines represented by the following pair of linear equations be parallel

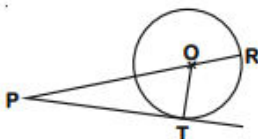
$$3x - y - 5 = 0$$

$$6x - 2y - p = 0$$
 a) all real values except 10 b) 10 c) $5/2$ d) $1/2$
5. Each root of $x^2 - bx + c = 0$ is decreased by 2. The resulting equation is $x^2 - 2x + 1 = 0$, then
 a) $b = 6, c = 9$ b) $b = 3, c = 5$ c) $b = 2, c = -1$ d) $b = -4, c = 3$
6. $(x^2 + 1)^2 - x^2 = 0$ has
 a) four real roots b) two real roots c) no real roots d) one real roots
7. The n^{th} term of the AP $a, 3a, 5a, \dots$ is
 a) na b) $(2n - 1)a$ c) $(2n + 1)a$ d) $2na$
8. In an AP, if $a = 3.5$, $d = 0$ and $n = 101$, then a_n will be
 a) 0 b) 3.5 c) 103.5 d) 104.5
9. In the given figure, $DE \parallel BC$. The value of EC is

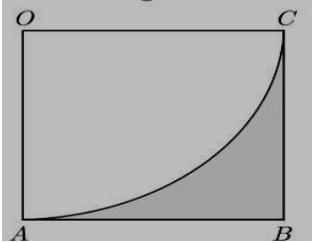


10. In figure, on a circle of radius 7 cm, tangent PT is drawn from a point P such that $PT = 24$ cm. If O is the centre of the circle, then the length of PR is

- a) 30 cm b) 28 cm
 c) 32 cm d) 25 cm



11. The value of the expression $(2\operatorname{cosec}^2 30^\circ + 3\sin^2 60^\circ - \frac{3}{4} \tan^2 30^\circ)$ is

- a) -1 b) 10 c) 3 d) 5
12. If the angle of depression of an object from a 75 m high tower is 30° then the distance of the object from the tower is _____
- a) $25\sqrt{3}$ m b) $50\sqrt{3}$ m c) $75\sqrt{3}$ m d) 150 m
13. In the adjoining figure, $OABC$ is a square of side 7 cm. OAC is a quadrant of a circle with O as centre. The area of the shaded region is
- a) 10.5 cm^2
b) 38.5 cm^2
c) 49 cm^2
d) 11.5 cm^2
- 
14. If the radius of the sphere is increased by 100% , the volume of the corresponding sphere is increased by _____
- a) 200% b) 500% c) 700% d) 800%
15. The median and mode respectively of a frequency distribution are 26 and 29 , Then its mean is _____
- a) 27.5 b) 24.5 c) 28.4 d) 25.8
16. An event is very unlikely to happen. Its probability is closest to _____
- a) 0.0001 b) 0.001 c) 0.01 d) 0.1
17. The centroid of the triangle whose vertices are $(3, -7)$, $(-8, 6)$ and $(5, 10)$ is _____
- a) $(0, 9)$ b) $(0, 3)$ c) $(1, 3)$ d) $(3, 5)$
18. If the distance between the points $A(4, p)$ and $B(1, 0)$ is 5 units then the value(s) of p is(are) _____
- a) 4 only b) -4 only c) ± 4 d) 0

In the question number 19 and 20, a statement of Assertion (A) is followed by a statement of Reason (R).

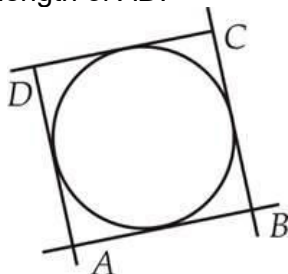
Choose the correction option.

19. Assertion : The value of y is 6 , for which the distance between the points $P(2, -3)$ and $Q(10, y)$ is 10
Reason : Distance between two given points $A(x_1, y_1)$ and $B(x_2, y_2)$ is given,
$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
- 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)
(A) c) Assertion (A) is true but reason (R) is false.
d) Assertion (A) is false but reason (R) is true.
20. Assertion $\frac{13}{3125}$ is a terminating decimal fraction
Reason : If $q = 2^m 5^n$ where m, n are non-negative integers, then $\frac{p}{q}$ is a terminating decimal fraction.
- 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)
(A) c) Assertion (A) is true but reason (R) is false.
d) Assertion (A) is false but reason (R) is true.

SECTION – B

Section B consists of 5 questions of 2 marks each.

21. In $\triangle ABC$, D and E are points on the sides AB and AC respectively such that $DE \parallel BC$ if $AD = x$ $DB = x - 2$ $AE = x + 2$ and $EC = x - 1$ find the value of x
22. In figure, a circle touches all the four sides of a quadrilateral $ABCD$. If $AB = 6$ cm, $BC = 9$ cm and $CD = 8$ cm, then find the length of AD .



23. If $\sec \theta + \tan \theta = 7$, then evaluate $\sec \theta - \tan \theta$.
24. Find the mean the following distribution :

Class	3-5	5-7	7-9	9-11	11-13
Frequency	5	10	10	7	8

(OR)

Find the mode of the following data :

Class :	0-20	20-40	40-60	60-80	80-100	100-120	120-140
Frequency	6	8	10	12	6	5	3

25. Explain why $(7 \times 13 \times 11) + 11$ and $(7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1) + 3$ are composite numbers.

(OR)

Explain whether $3 \times 12 \times 101 + 4$ is a prime number or a composite number.

SECTION – C

Section C consists of 6 questions of 3 marks each.

26. The sum of four consecutive number in AP is 32 and the ratio of the product of the first and last

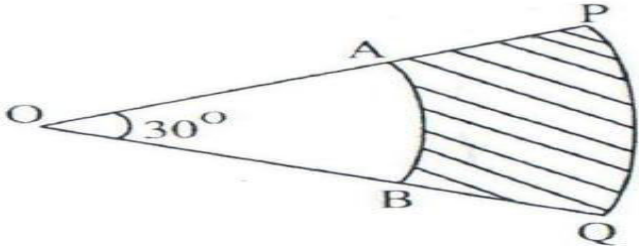
term to theproduct of two middle terms is 7 : 15. Find the numbers.

27. Prove that $\frac{\cot\theta+\operatorname{cosec}\theta-1}{\cot\theta-\operatorname{cosec}\theta+1} = \frac{1+\cot\theta}{\sin\theta}$

28. A road which is 7 m wide surrounds a circular park whose circumference is 88 m. Find the area of the road.

(OR)

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



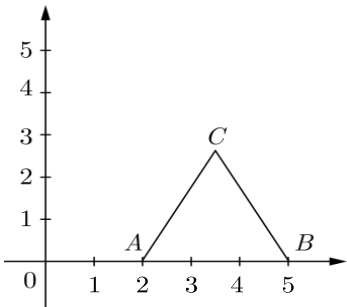
29. Compute the mode for the following frequency distribution:

Size of items (in cm)	0- 4	4- 8	8- 12	12-16	16-20	20-24	24-28
Frequency	5	7	9	17	12	10	6

30. Find the ratio in which $P(4, m)$ divides the segment joining the points $A(2, 3)$ and $B(6, - 3)$. Hence find m .

(OR)

In the given figure ΔABC is an equilateral triangle of side 3 units. Find the co-ordinates of the other two Vertices



31. Given that $\sqrt{5}$ is irrational, prove that $2 \sqrt{5} - 3$ is an irrational number.

SECTION – D

Section D consists of 4 questions of 5 marks each.

32. For what value of k , which the following pair of linear equations have infinitely many solutions: $2x + 3y = 7$

and $(k + 1) x + (2k - 1) y = 4k + 1$

(OR)

The cost of 2 kg of apples and 1kg of grapes on a day was found to be Rs. 160. After a month, the cost of 4kg of apples and 2kg of grapes is Rs. 300. Represent the situations algebraically and geometrically.

33. Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary angles at the centre of the circle.
34. The angles of depression of the top and bottom of an 8 m tall building from top of a multi-storeyed building are 30° and 45° , respectively. Find the height of multi-storey building and distance between two buildings.

(OR)

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

Find the height of the poles and distance of point from poles.

35. A solid is in the form of a cylinder with hemispherical end. 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 (Use $\pi = 22/7$)

SECTION – E

Case study based questions are compulsory.

36. Maximum Profit: An automobile manufacturer can produce up to 300 cars per day. The profit made from the sale of these vehicles can be modelled by the function $p(x) = -x^2 + 350x - 6600$ where $p(x)$ is the profit in thousand Rupees and x is the number of automobiles made and sold. Answer the following questions based on this model:

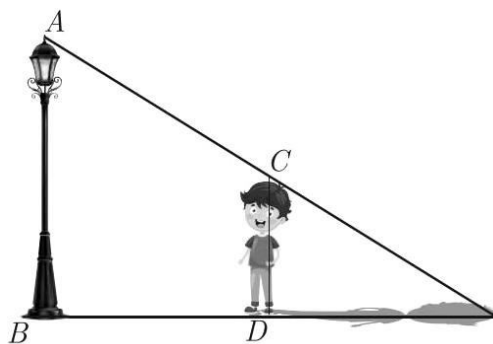
- (i) When no cars are produce what is a profit/loss? (1)
- (ii) What is the break even point? (Zero profit point is called break even)? (1)
- (iii) What is the profit/loss if 175 cars are produced? (2)

(or)

What is the profit if 400 cars are produced?



37. Rohan is very intelligent in maths. He always try to relate the concept of maths in daily life. One day he is walking away from the base of a lamp post at a speed of 1 m/s. Lamp is 4.5 m above the ground.



- (i) If after 2 second, length of shadow is 1 meter, what is the height of Rohan ? (1)
- (ii) Which similarity criterion is used in solving the above problem (1)
- (iii) What is the distance of Rohan from pole at this point ? (2)

(or)

What will be the length of his shadow after 4 seconds?

38. Political survey questions are questions asked to gather the opinions and attitudes of potential voters. Political survey questions help you identify supporters and understand what the public needs. Using such questions, a political candidate or an organization can formulate policies to gain support from these people.



A survey of 100 voters was taken to gather information on critical issues and the demographic information collected is shown in the table. One out of the 100 voters is to be drawn at random to be interviewed on the India Today News on prime time.

	Women	Men	Totals
Republican	17	20	37
Democrat	22	17	39
Independent	8	7	15
Green Party	6	3	5
Totals	53	47	100

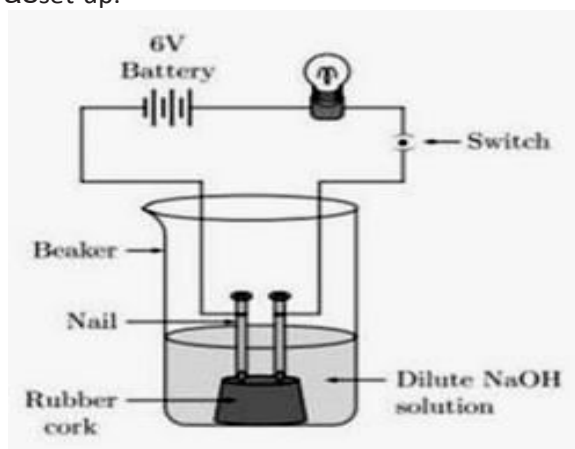
- i) What is the probability the person is a woman or a Republican ? (1)
- ii) What is the probability the person is a Democrat ? (1)
- iii) What is the probability the person is a Independent men or green party men ? (2)
- (or)
- .What is the probability the person is not a Independent Women or Republican men ?

General Instructions:

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

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

1. In an attempt to demonstrate electrical conductivity through an electrolyte, the following apparatus (figure) was set up.



Which among the following statement (s) is (are) correct?

1. Bulb will not glow because electrolyte is not acidic.
 2. Bulb will glow because NaOH is a strong base and furnishes ions for conduction.
 3. Bulb will not glow because circuit is incomplete.
 4. Bulb will not glow because it depends upon the type of electrolytic solution.
- a) 1 and 3 b) 2 and 4 c) Only 2 d) Only 4
2. The following reaction is an example of a

$$4\text{NH}_3(\text{g}) + 5\text{O}_2(\text{g}) \rightarrow 4\text{NO}(\text{g}) + 6\text{H}_2\text{O}(\text{g})$$
 - 1) displacement reaction
 - 2) combination reaction
 - 3) redox reaction
 - 4) neutralisation reaction

a) 1 and 4 b) 2 and 3 c) 1 and 3 d) 3 and 4
 3. Calcium oxide reacts vigorously with water.

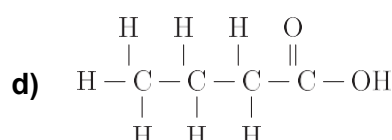
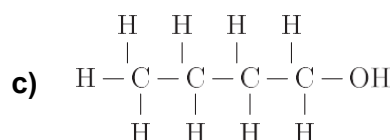
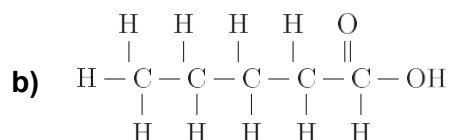
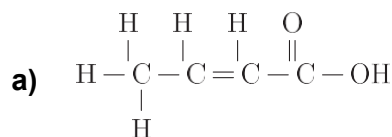


Which of the following is the incorrect observation of the reaction shown in the above set up?

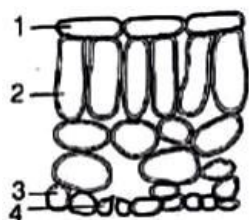
- a) It is an endothermic reaction.
 - b) Slaked lime is produced.
 - c) It is an exothermic reaction.
 - d) It is a combination reaction.
4. $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
 With the reference of above reaction which one of the option in the table is correct?

	Reactants	Products
(a)	N_2, H_2	NH_3
(b)	NH_3	N_2, H_2
(c)	N_2	H_2, NH_3
(d)	N_2NH_3	H_2

5. Which one of the following properties is not general exhibited by ionic compounds?
a) Solubility in water b) Electrical conductivity in solid state
c) High melting and boiling points d) Electrical conductivity in molten state
6. A student require hard water for an experiment in his laboratory which is not available in the neighbouring area. In the laboratory there are some salts, which when dissolved in distilled water can convert it into hard water. Select from the following groups of salts, a group, each salt of which when dissolved in distilled water will make it hard.
a) Sodium chloride, Potassium chloride b) Sodium sulphate, Potassium sulphate
c) Sodium sulphate, Calcium sulphate d) Calcium sulphate, Calcium chloride
7. The correct structural formula of butanoic acid is

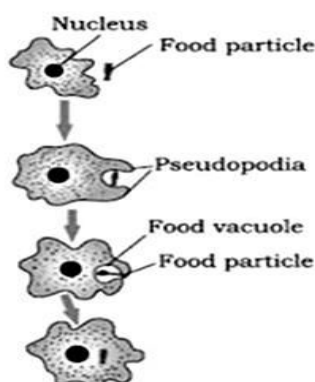


8. The diagram shows the arrangement of cells inside the leaf of a green plant. (No cell contents are shown).



Which of the following cells normally contain chloroplasts?

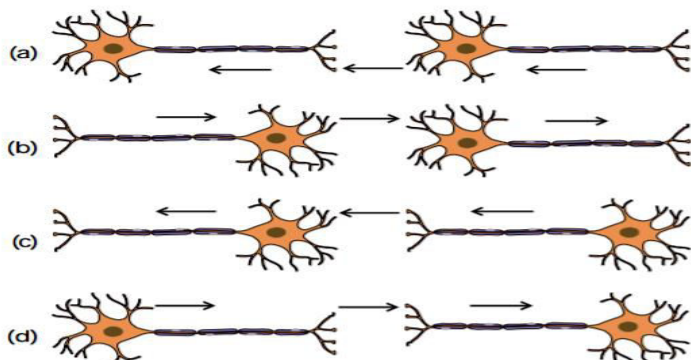
- a) 2 and 4 b) 2 and 3 c) 1 and 2 d) 1 and 4
9. Identify the micro-organism whose nutrition type is shown below



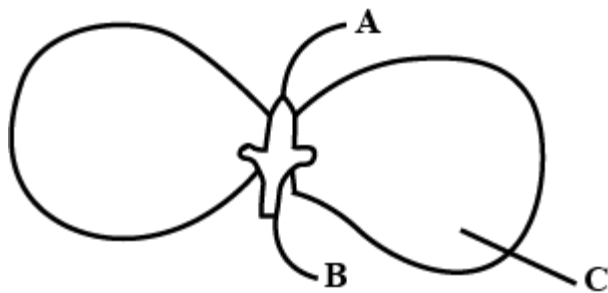
- (a) Food bacteria
(b) Yeast
(c) Fungus
(d) Amoeba

10. Structure present in a cell which is responsible for determination of the sex of a baby is :
a) cytoplasm b) cell membrane c) nucleus d) chromosome

11. What is the correct direction of flow of electrical impulses ?



12. In following diagram the parts A, B and C are sequentially

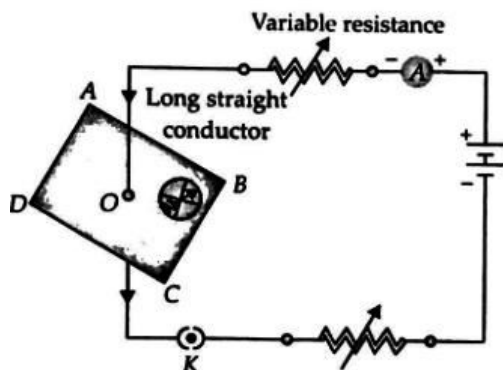


- a) cotyledon, plumule and radicle b) plumule, radicle and cotyledon
c) plumule, cotyledon and radicle d) radicle, cotyledon and plumule

13. At the time of short circuit, the electric current in the circuit :

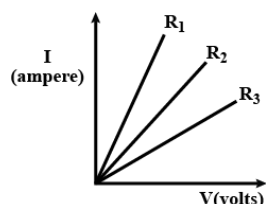
- a) vary continuously b) does not change c) reduces substantially d) increases heavily

14. If the key in the arrangement taken out (the circuit is made open) and magnetic field lines are drawn over the horizontal plane $ABCD$, the lines are



- a) concentric circles
b) elliptical in shape
c) straight lines parallel to each other
d) concentric circles near the point O but of elliptical shapes as we go away from it.

15. 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 (Figure). 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) $R_2 > R_3 > R_1$

16. Which of the following statement is not correct about the magnetic field?

- a) Magnetic field lines form a continuous closed curve.
b) Magnetic field line do not intersect each other.
c) Direction of tangent at any point on the magnetic field line curve gives the direction of magnetic field at that point.
d) Outside the magnet, magnetic field lines go from South to North pole of the magnet

Question no. 17 to 20 are Assertion-Reasoning based questions.

17. **Assertion** : Corrosion of iron is a serious problem.

Reason : Every year an enormous amount of money is spent to replace damaged iron.

- a) Both Assertion and Reason are True and Reason is the correct explanation of the Assertion.
b) Both Assertion and Reason are True but Reason is not the Correct explanation of the Assertion.
c) Assertion is True but the Reason is False.
d) Both Assertion and Reason are False.

18. **Assertion** : Dominant allele is an allele whose phenotype expresses even in the presence of another allele of that gene.

Reason : It is represented by a capital letter, e.g. T.

- 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** : All the plants possess autotrophic mode of nutrition.

Reason : Due to the presence of green coloured pigment chlorophyll in them.

(a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.

(b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

(c) Assertion is true but Reason is false.

(d) Both Assertion and Reason are false.

20. **Assertion** : The magnetic field produced by a current carrying solenoid is independent of its length and cross-section area.

Reason : The magnetic field inside the solenoid is uniform.

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.

SECTION – B

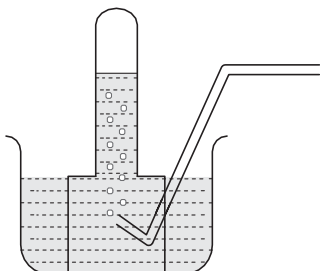
Question no. 21 to 26 are very short answer questions.

21. A metal is treated with dil H_2SO_4 , the gas evolved is collected by the method shown in the figure.

Answer the following :

i) Name the gas.

ii) Name the method of collection of the gas



List any two observations when a highly reactive metal is dropped in water.

22. What do you mean by diffusion?

23. Which are the first simple molecules of food produced during photosynthesis ? What happens to these simple molecules in the leaves later ?

24. What is the meaning of the term “assimilation” ?

25. Draw a neat diagram to show the refraction of a light ray through a glass prism and label on it the angle of incidence and angle of deviation.

(or)

What is the scattering of light? Explain with the help of an example.

26. What will happen to the garbage and dead animals and plants in absence of microorganisms?

SECTION - C

Question no. 27 to 33 are short answer questions.

27. State which of the following chemical reactions will take place or not, giving suitable reason for each

(i) $\text{Zn(s)} + \text{CuSO}_4\text{(aq)} \rightarrow \text{ZnSO}_4\text{(aq)} + \text{Cu(s)}$

(ii) $\text{Fe(s)} + \text{ZnSO}_4\text{(aq)} \rightarrow \text{FeSO}_4\text{(aq)} + \text{Zn(s)}$

(iii) $\text{Zn(s)} + \text{FeSO}_4\text{(aq)} \rightarrow \text{ZnSO}_4\text{(aq)} + \text{Fe(s)}$

28. Give reasons for the following :

(i) Shining surfaces of metals become dull on exposure to air and moisture.

(ii) Aluminium is extracted from its ore by electrolysis of molten ore.

(iii) Gold is available in the native state.

29. Mention the three kinds of cells present in blood. Write one function of each.

(or)

With the help of diagram explain how exchange of gases occurs in leaf of a plant.

30. Manju is using a concave mirror for image formation for different positions of an object. What inferences can be drawn about the following when an object is placed at a distance of 10 cm from the pole of a concave mirror of focal length 15 cm ?

a) Position of the image

b) Size of the image

c) Nature of the image

Draw a labelled ray diagram to justify your inferences.

31. (a) Define optical centre of a spherical lens.

(b) You are given a convex lens of focal length 30 cm. Where would you place an object to

get a real, inverted and highly enlarged image of the object ? Draw a ray diagram showing the image formation.

- (c) A concave lens has a focal length of 20 cm. At what distance should an object be placed so that it forms an image at 15 cm away from the lens ?

32. What is a solenoid? Can you determine the north and south poles of a current-carrying solenoid with the help of a bar magnet? Explain.

(or)

- When is the force experienced by a current-carrying conductor placed in a magnetic field largest?
- Name two devices that use current carrying conductors and magnetic fields
- State the rule to determine the direction of the magnetic field produced around a straight conductor carrying current.

33. Explain the phenomenon of Biological Magnification. How does it affect organisms belonging to different trophic levels particularly the tertiary consumers ?

SECTION – D

Question no. 34 to 36 are Long answer questions.

34. An organic compound *A* is widely used as a preservative in pickles and has a molecular formula

$C_2H_4O_2$. This compound reacts with ethanol to form a sweet smelling compound *B*.

- Identify the compound *A*.
- Write the chemical equation for the reaction with ethanol to form compound *B*.
- How can we get compound *A* from *B*?
- Name the process and write corresponding chemical equation.
- Which gas is produced when compound *A* reacts with washing soda ? Write the chemical equation

35. a) Write the function of following parts in human female reproductive system :

- Ovary
- Oviduct
- Uterus

b) Describe in brief the structure and function of placenta.

(or)

Define the terms :

- Syngamy
- Triple fusion
- Implantation
- Placenta
- Gestation.

36. A student fixes a sheet of white paper on a drawing board. He places a bar magnet in the centre of it. He sprinkles some iron filings uniformly around the bar magnet and observes that the iron filings arrange themselves in a particular pattern.

- Why do the iron filings arrange in a pattern?
- What does the lines along which the iron filings align represent?
- What does the crowding of iron filings at the end of the magnet indicate?
- List the properties of magnetic field lines.

SECTION – E

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

37. The reactivity series is a list of metals arranged in the order of their decreasing activities. The metal at the top of the reactivity series is the most reactive and metal at the bottom is the least reactive. The more reactive metal displaces less reactive metal from its salt solution.

K	Potassium	More reactive
Na	Sodium	
Ca	Calcium	
Mg	Magnesium	
Al	Aluminium	
Zn	Zinc	Reactivity decreases.
Fe	Iron	
Pb	Lead	
[H]	[Hydrogen]	
Cu	Copper	
Hg	Mercury	
Ag	Silver	
Au	Gold	Least reactive

- Name the metals which react with steam but not with hot water.

- (ii) What happen when calcium react with nitric acid and which method is used to extract metal present at thetop of the reactivity series?
(or)
- (ii) Which of the following metals exist in their native states in nature?
I. Cu
II. Au
III. Zn
IV. Ag

38. Question numbers i - iv are based on the table given below. Study the table and answer the following questions.

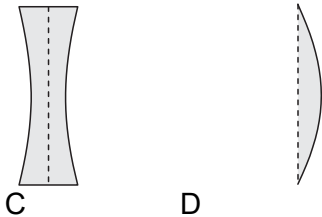
Table-A

	Characters	Males	Females
1.	Total no. of chromosomes	23 pairs	23 pairs
2.	No. of autosome	22 pairs	22 pairs
3.	No. of sex chromosome	1 pair	1 pair

- i) What is sex determination?
ii) What are the sex chromosomes in the males?
iii) What are the sex chromosomes in the females?
(or)
iv) Is the father responsible for the sex of the child?

39. Lenses are objects made of transparent materials such as glass or clear plastic that has curved surfaces. Diverginglenses are thicker at their edges than at their centres and makes light rays passing through them spread out. Converging lenses are thicker in their middle than at this edges and make light rays passing through them focus at a point. These are used in spectacles to help people with poor vision see better. The converging lenses magnifyby bending the rays of light that pass through them to meet at a point called focus. Thicker the converging lensis at its centre, the more its magnifies and closer the focus is to the lens.

- i) Ravi uses two lenses A and B of same size and same material as shown. P_1 and P_2 are the powers of A and B. An object is kept at the same distance from the lens between F and 2F of each lens on the principal axisin turn. Let I_1 and I_2 be the image formed by two lenses respectively. What is the relation of image distances of both lens ?
ii) Write down the relation between the power of lens of both lenses ?
iii) Meenakshi uses above two lenses A and B along with another two lenses C and D, as shown



She is able to see the subject matter on the black board while sitting in the front row in the classroom but isunable to see the same matter while sitting in the last row.
Which of the above four lenses will she require to correct the defect in her vision? Why ?

- (or)
iv) Natasha places an object on the principal axis of above given lens A. One end of this object coincides withthe focus F and the other end with 2F. What will be the nature of the image formed by the lens on the otherside ?

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.

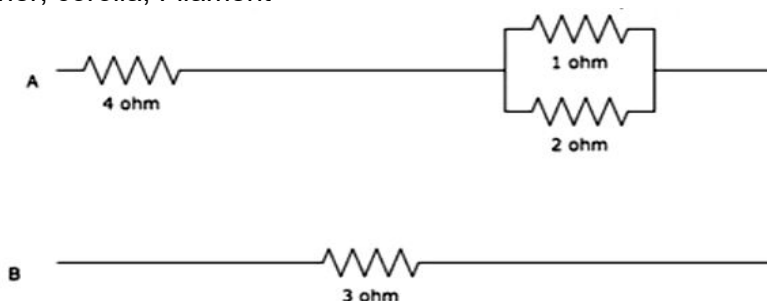
SECTION – A

MCQs

(1 X 20 = 20)

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

1. Sublimation of solid Ammonium chloride is a
 (a) Chemical change (b) Physical change (c) Both A and B (d) None of these
2. Balance the chemical equation
 $Fe_2O_3(s) + x Al(s) \longrightarrow y Fe(l) + Al_2O_3(s)$
 (a) $x = 2, y = 2$ (b) $x = 3, y = 3$ (c) $x = 2, y = 3$ (d) $x = 3, y = 2$
3. How will the concentration of H_3O^+ ions change on dilution?
 (a) Decrease (b) Increase (c) Both a and b (d) No change
4. Which one is not a strong base?
 (a) NH_4OH (b) KOH (c) $NaOH$ (d) None of these
5. How many molecules of water of crystallisation are present in washing soda?
 (a) 7 (b) 5 (c) 2 (d) 10
6. How many electrons present in the valence shell of I^{3+} ?
 (a) 3 (b) 10 (c) 8 (d) 2
7. Write the IUPAC name of CH_3CH_2OH
 (a) Methanol (b) Ethanol (c) Propanol (d) Pentanol
8. Choose the correct statement about heart
 (a) The upper two chambers of human heart are called ventricles
 (b) The lower two chambers of human heart are called atrium
 (c) The chamber of the heart are separated by a partition called pericardium
 (d) The pulmonary artery carries deoxygenated blood from the right ventricle to the lungs
9. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in
 (a) cytoplasm (b) chloroplast (c) mitochondria (d) nucleus
10. Which of the following is a recessive trait in garden pea plant?
 (a) tall stem (b) wrinkled seeds (c) yellow seed coat (d) round seeds
11. In humans the life processes are controlled and regulated by
 (a) reproductive and endocrine systems (b) respiratory and nervous systems
 (c) endocrine and digestive systems (d) nervous and endocrine systems
12. The female reproductive part of the flower consists of
 (a) Stigma, Anther, Filament (b) Stigma, Style, Ovary
 (c) Style, Ovary, Thalamus (d) Anther, corolla, Filament
13. The total resistance between the points A and B is
 (a) 7 ohm (b) 3 ohm
 (c) 7.67 ohm (d) 0.48 ohm



14. The potential difference between the live and neutral wire is
 (a) 240 Volts (b) 250 Volts (c) 280 Volts (d) 220 Volts
15. A cooler of 1500 Watts, 200 Volts and a fan of 500 Watts, 200 Volts are to be used from a household supply. The rating of the fuse to be used is
 (a) 2.5 A (b) 5.0 A (c) 7.5 A (d) 10 A
16. The factors on which the magnetic field strength produced by a current carrying solenoid depends are
 (a) Magnitude of current (b) Number of turns
 (c) Nature of core material (d) All of the above

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 : Sodium , potassium and lithium are stored under oil
 Reason : To prevent their reaction with oxygen moisture and carbon dioxide of air so as to protect them
18. Assertion : Zygote with two x chromosomes develops into a boy
 Reason : If the egg cell carrying an x chromosome fuses with the sperm carrying a y chromosome, the resulting child would be a boy
19. Assertion : Resins and gums are stored in old xylem tissue in plants
 Reason : Resins and gums facilitate transport of water molecules
20. Assertion : A compass needle is placed near a current carrying straight conductor. The deflection of the compass needle decreases when the compass needle is displaced away from the wire
 Reason : Strength of the magnetic field decreases as one moves away from a current carrying conductor

SECTION – B

21. What are amphoteric oxides? Give example.
22. Which animal or plant hormone is associated with the following?
 (a) Decreased sugar level in blood _____ (b) Inhibits growth of plants _____
 (c) Dwarfism _____ (d) Promote cell division in plants _____
23. (a) Give any two functions of stomata
 (b) Name the two conducting tissues of plants
24. What is the role of saliva in the digestion of food?
25. Why do stars twinkle?
 (or)
 Why the planets do not twinkle?
26. (a) The first trophic level in a food chain is always a green plant why?
 (b) Write an example of terrestrial food chain

SECTION – C

27. What are isomers? Isomers of the first three members of alkane series are not possible. Give reason to justify this statement and draw structures of two isomers of butane C_4H_{10}
28. Give below are the steps for extraction of copper from its ore. Write the reaction involved
 (a) Roasting of copper (I) sulphide
 (b) Reduction of copper (I) oxide with copper (I) sulphide.
 (c) Electrolytic refining
29. (a) What are the differences between aerobic and anaerobic respiration? Name some organisms that use the anaerobic respiration
 (b) What is the function of trachea? Why do the walls not collapse even when there is less air in it?
 (or)
 (a) What are the different ways in which glucose oxidized to provide energy in various organism?
 (b) How is oxygen and carbon dioxide transported in human beings?
30. The linear magnification produced by a spherical mirror is $\left(-\frac{1}{5}\right)$. Analyse this value and state.
 (i) The type of spherical mirror
 (ii) The position of the object with respect to the pole of the mirror.
 (iii) Draw a ray diagram to justify your answer

31. An object placed at 4 cm in front of a converging lens produces a real image 12 cm from the lens
- What is the magnification?
 - What is the focal length of the lens?
 - Draw a ray diagram to show the formation of image
32. A current carrying conductor is placed in a magnetic field
- List the factors on which the magnitude of force experienced by the conductor depends .
 - When is the magnitude of this force maximum ?
 - State the rule which helps to find the direction of motion of the conductor.
- (or)
- Give reasons
- Metallic appliances should be earthed
 - Parallel connection is used in household circuit
 - Using fuse in a household electric circuit is important
33. (a) What are trophic levels? Give an example of a food chain and state the different trophic levels in it
- What will happen if we kill all the organisms in the trophic level?

SECTION – D

34. (a) 2 g of silver chloride is taken in a china dish and the china dish is placed in sunlight for some time. What will be your observation in this case? Write the chemical reaction involved in the form of a balanced chemical equation. Identify the type of chemical reaction.
- Define exothermic and endothermic reaction. Give example
- (or)
- Write the difference between complete and Incomplete combustion
 - How would you bring about the following conversions? Name the process and write the reaction involved.
 - Ethanol to ethene.
 - Propanol to propanoic acid
35. (a) What are the parts of flower and write its function?
- Give two examples of unisexual and bisexual flowers
 - Draw a labelled diagram of the longitudinal section of flower?
- (or)
- Write two viral and bacterial sexually transmitted diseases
 - what are the disadvantages of over population?
 - Draw a labelled diagram of the female reproductive system in human being
36. (a) State *ohm's* law
- List the factors on which the resistance of a conductor depends?
 - Define one *ohm*
 - Calculate the resistance of a metal of length 2 m and area of cross – section $1.55 \times 10^{-6} m^2$ if the resistivity of the metal is $2.8 \times 10^{-8} \Omega m$

SECTION – E

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

37. Indicators are substance that undergo a change of colour with a change of acidic neutral or basic medium. Many of these indicators are derived from natural substances such as extracts from flowers, petals and barrier, litmus, a purple dye is extracted from the lichen plant. Some indicators are prepared artificially. For example methyl orange and phenolphthalein

- Which one is a synthetic Indicators?
 - Phenolphthalein
 - litmus
 - Turmeric
 - Red cabbage
 - What is the colour change when methyl orange is added with lime water?
 - Red
 - Blue
 - Yellow
 - Pink
 - What is the colour of phenolphthalein?
 - Red
 - Orange
 - Yellow
 - Colourless
 - Which one is not olfactory indicators
 - Onion
 - Vennila
 - Clove
 - Petunia
- (or)
- What is the natural colour of litmus?
- Red
 - Blue
 - Purple
 - None of these

38. Study the given cross showing self pollination in F_1 and answer the following questions.
- | | | | |
|------------------|----------------|---|----------------------|
| | (Round Yellow) | | (Wrinkled Green) |
| Parents | $RRYY$ | × | $rryy$ |
| F_1 Generation | $RrYy$ | × | _____ (Round Yellow) |

- (a) The missing blank in the above cross is
 (i) $RrYy$ (ii) $RRYY$ (iii) $RrYY$ (iv) $rryy$
- (b) The above cross is known as _____
 (i) Monohybrid cross (ii) Dihybrid cross (iii) Test cross (iv) Back cross
- (c) The ratio of the combination of characters in the F_2 progeny is
 (i) $3 : 1$ (ii) $1 : 2 : 1$ (iii) $1 : 1 : 1$ (iv) $9 : 3 : 3 : 1$
 (or)
- (c) Which of these is not the genotype of F_2 progeny?
 (i) $RrYy$ (ii) $RRYY$ (iii) $wwgg$ (iv) $rryy$
39. The refractive index of an optical medium is a dimensionless number that gives the indication of the light bending ability of that medium.
- (a) The speed of light in air is $3 \times 10^8 \text{ m/s}$. What will be its speed in diamond whose refractive index is 2.4
- (b) The refractive indices of glass and water with respect to air are $\frac{3}{2}$ and $\frac{4}{3}$ respectively. Find the refractive index of glass with respect to water
- (c) Light travels from a rarer medium (1) to a denser medium (2). The angle of incidence and refraction are respectively 45° and 30° calculate
 (i) Refractive index of second medium with respect to the first medium
 (ii) Refractive index of medium (1) with respect to medium (2)
 (or)
- (i) The refractive index of glass is 1.6 and that of diamond is 2.4. Calculate
 (ii) The refractive index of diamond with respect to glass
 (iii) Refractive index of glass with respect to diamond

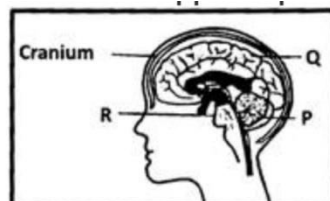
General instructions:

- 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.

- The brown gas evolved on heating of lead nitrate is
a) O_2 b) NO_2 c) N_2 d) NO
- $Ba(OH)_2 + 2NH_4Cl \longrightarrow BaCl_2 + 2NH_4OH$ is an
a) displacement reaction b) decomposition reaction c) exothermic d) endothermic
- Name the indicator which is Pink in basic solution and colourless in acidic solution.
a) Methyl orange b) Phenolphthalein c) Blue litmus solution d) Red litmus solution
- Does base contain H_3O^+ ion, then how they are basic ?
a) Yes, $OH^- > H_3O^+$ b) NO c) Yes $H_3O^+ > OH^-$ d) Yes $H_3O^+ = OH^-$
- Which of the following metals liberate Hydrogen gas with 5% HNO_3 ?
i) Cu ii) Zn iii) Mn iv) Mg
a) (i) and (ii) b) (ii) and (iii) c) (iii) and (iv) d) (i) and (iv)
- The formula of cyclo hexane is
a) $C_6 H_{14}$ b) $C_6 H_{12}$ c) $C_6 H_{10}$ d) $C_6 H_6$
- The compound obtained on reaction of Iron with steam is / are.
a) $Fe_2 O_3$ b) $Fe_3 O_4$ c) Feo d) $Fe_2 O_3$ and $Fe_3 O_4$
- In the cardiac cycle diastole
a) The number of heart beats per minute
b) The relaxation period after contraction of the heart
c) The forceful pumping action of the heart
d) The contraction period after relaxation of the heart.
- What will happen if part 'P' is injured?
a) Breathing will be affected
b) The person will not be able to think rationally
c) Coordination and stability of the body will be adversely affected
d) The person will not be able to move.



- Among the seven pairs of contrasting traits in pea plant as studied by Mendel the number of traits related to flower, pod and seed respectively were.

a) 2, 2, 2 b) 2, 2, 1 c) 1, 2, 2 d) 1, 1, 2

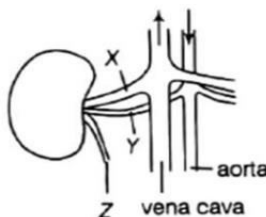
- Which is the most common method of reproduction in majority of fungi and bacteria?

a) Budding b) Spore formation c) Binary fission d) Multiple fission

- In the figure along side the structures associated with human kidney are marked (X, Y and Z) The relative

concentration of Urea in the structure is

- X is sometimes higher than Y
- Y is always higher than Z
- Y is always lower than Z
- Z is sometimes lower than X



- Which of the following statement is true?

- A convex lens has 4 dioptre power having a focal length 0.25m.
- A concave lens has – 4 dioptre power having a focal length 0.25m.
- A concave lens has 4 dioptre having a focal length 0.25m
- A convex lens has – 4 dioptre power having a focal length of 0.25m.

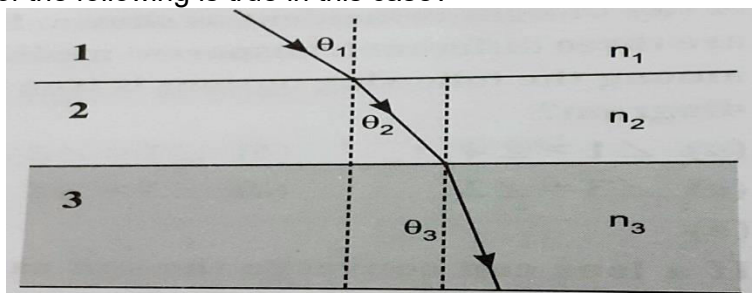
- If a lens can converge the sun rays at a point 20cm away from its optical centre the power of this lens is :

a) + 2.0 D b) – 2.0 D c) +5.0 D d) – 5.0 D

- Two conducting wires of the same material and of equal lengths and equal diameters are first connected in series and then parallel in a circuit across the same potential difference. The ratio of heat produced in series and parallel combination would be?

a) 1:2 b) 2:1 c) 1:4 d) 4:1

16) In the diagram shown below n_1 , n_2 and n_3 are refractive indices of the media 1, 2 and 3 respectively. Which one of the following is true in this case?



- a) $n_1 = n_2$ b) $n_1 > n_2$ c) $n_2 > n_3$ d) $n_3 > n_1$

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:

- Both A and R are true and R is the correct explanation of A
- Both A and R are true and R is not the correct explanation of A
- A is true but R is false
- A is false but R is true

17) Assertion (A): Cooking oil decolourises bromine water.

Reason (R): Cooking oil is a saturated compound.

18) Assertion (A) : The genetic complement of an organism is called genotype.

Reason (R): Genotype is the type of hereditary properties of an organism.

19) Assertion (A): Translocation of sugar occurs through the phloem.

Reason (R): It is achieved by diffusion of sugars through phloem.

20) Assertion (A): Conductors allow the current to flow through themselves.

Reason (R): They have free-charge carriers.

SECTION – B

21) Explain the action of the dil HCl acid on the following with chemical reaction:

- Magnesium ribbon
- Crushed egg shells

(or)

a) Identify the acid and base which form sodium hydrogen carbonate. Write the chemical equation . State whether this compound is acidic, basic or neutral.

b) What is the pH value of salt formed by a weak acid and strong base

22) "All plants give out oxygen during the day and carbon dioxide during night". Do you agree with this statement?

Give reason.

23) Which digestive secretion does not contain enzymes but it is important. Discuss.

24) Mention one function for each of these hormones.

- Thyroxine
- Insulin
- Adrenaline

25) a) What is Tyndall effect?

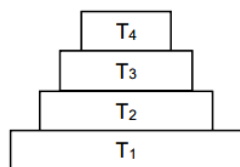
b) Give an example of a Phenomenon where Tyndall effect can be observed

(or)

Rainbow is an example of dispersion of sunlight. Justify this statement by explaining, with the help of a labelled diagram, the formation of a rainbow in the sky. List two essential conditions for observing a rainbow.

26) a) In the given figure, the various trophic levels are shown in a pyramid. At which trophic level is maximum

energy available?



b) What will happen if we kill all organisms in one trophic level?

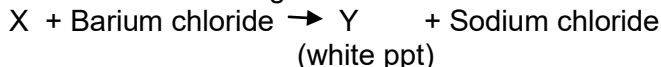
SECTION – C

27) a) Define neutralization reaction with example.

b) Name the acid present in Bee sting

c) Write an equation to show the reaction between plaster of paris and water.

28) a) Consider the following reaction



i. identify X and Y

ii. name the type of the reaction

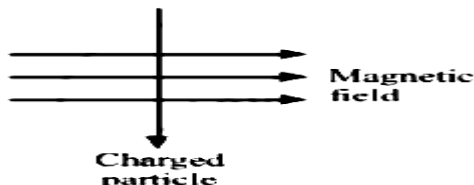
29) a) What will happen when lymphocytes vessels are blocked?

b) What causes movement of food inside the alimentary canal?

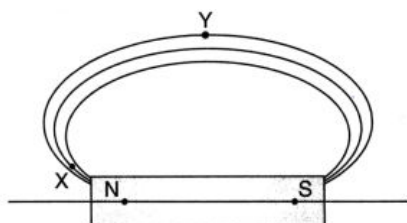
c) Rings of cartilages are present in trachea Give reason.

(or)

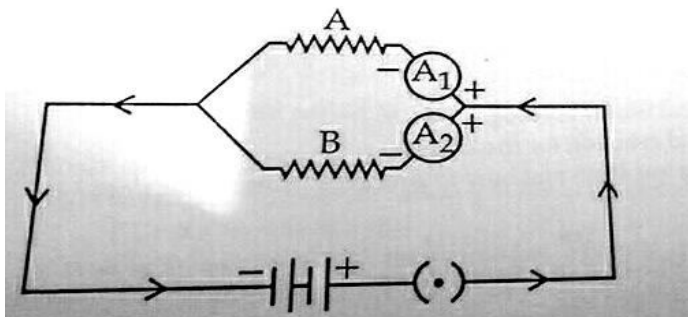
- a) What is the composition of Urine?
 b) Are glucose and proteins normally present in Urine. Why?
 c) How is the volume of Urine regulated?
- 30) a) Why does it take some time to see objects in a dim light when you enter the room from bright sunlight outside ?
 b) How are we able to see the nearby as well as distant objects clearly?
 c) The near point of hypermetropic eye is 75.0 cm from the eye. What is the power of the lens required to enable him to read clearly a book held at 25.0 cm from the eye?
- 31) a) A charged particle enters at right angles into a uniform magnetic field as shown: What should be the nature of charge on the particle if it begins to move in a direction pointing vertically out of the page due to its interaction with the magnetic field?



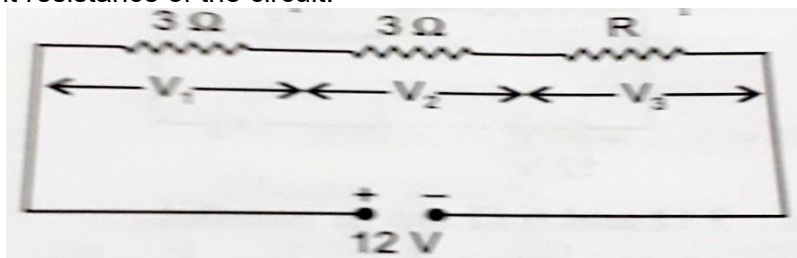
- b) Magnetic field lines are shown in the given diagram. A student makes a statement that magnetic field at X is stronger than at Y. Justify this statement. Also redraw the diagram and mark the direction of magnetic field lines.



- c) What are the factors which govern the force experienced by a current carrying conductor placed in a uniform magnetic field depends?
- 32) a) In a given circuit, a resistor A and B are made up of same metal and are of same length but 'A' is thicker than 'B'.



- Which of the two ammeters will show a higher reading? Justify your answer.
- b) Two identical resistors each of resistance 12Ω are connected (a) in series (b) in parallel in turn to a battery of 6V. Calculate the ratio of power consumed in the combination of resistors in the two cases.
- c) Series arrangement is not used for domestic circuits. Give any two reasons.
- (or)
- Two resistors of 3Ω each and an unknown resistor are connected in a series across a 12 V battery. If the voltage drop across the unknown resistor is 6V. Find:
- a) Potential difference across 3 ohm resistance
 b) The current through unknown resistor 'R'
 c) Equivalent resistance of the circuit.



- 33) a) What is Ozone? How ozone is formed in the atmosphere?
 b) How does it protect the Organisms on the earth?

SECTION – D

- 34) a) Draw the structure of the following compounds
 i) Propanal
 ii) Chloro Butane
- b) How would you bring about the following conversion? Name the process and write the reaction involved.
 iii) ethanol to ethene

c) Write the electron dot structure of hydrogen sulphide molecule.

(or)

- a) Why are most carbon compounds poor conductors of electricity?
- b) Why the melting and Boiling points of C_5H_{10} is higher than C_4H_8 ?
- c) What is meant by isomers? Draw the structures of 2 isomers of Butane – C_4H_{10}
- d) Why do soaps not form lather ((foam) with hard water.

35) a) Newly formed DNA copies may not be identical at times. Give reason.

b) List two advantages and disadvantages of vegetative propagation.

c) Name the mode of reproduction of the following organisms and state the important feature of each mode:

i) Planaria ii) Rhizopus

(or)

a) Draw a diagram of human female reproductive system and label the parts

i) Which produce an egg

ii) Where fertilisation takes place

b) List two bacterial diseases which are transmitted sexually

c) Explain the different methods of contraception.

36. A student wants to project the image of a candle flame on a screen 80.0 cm in front of a mirror by keeping the candle flame at a distance of 20.0 cm from its pole.

i) Which type of mirror should the student use?

ii) Find the magnification of the image produced.

iii) Find the distance between the object and its image.

iv) Draw a ray diagram to show the image formation in this case and mark the distance between the object and its image.

SECTION – E

37) Metal oxide are basis in nature. But some metal oxide, such as aluminium oxide, Zinc oxide. Etc Show both acidic as well as basic behavior. Such metal oxides which react with both acid as well as bases to produce salts and water are known as amphoteric oxide . Most metal oxides are insoluble in water but some of these dissolve in water to form alkalis

i) Write a chemical reaction of Aluminium when burnt in air?

ii) Name two oxides which are soluble in water and form alkalis?

iii) Write a equation of sodium oxide with water?

(or)

iv) Why is Aluminum oxide considered an amphoteric oxide?

38) Mendel crossed pure bred pea plants having round-green seeds with pure bred pea plants having wrinkled yellow and found that only round yellow seeds were produced in the F_1 generation. When F_1 generation pea plants were self pollinated when in addition to the original he obtained 2 new traits in the F_2 generation. Mendel collected a total of 556 seeds.

a) What is this cross called as, and what is its Phenotypic ratio of F_2 generation?

b) Which type of traits were missing in F_1 generation but reappeared in F_2 generation why?

c) i) Write the Phenotypes of the following genotypes.

a) $RRyy$

b) $rrYy$

c) $rryy$

d) $RRYy$

(or)

ii) What will be the number of seeds?

a) Round green seeds

b) Wrinkled green seeds

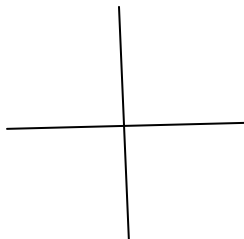
c) Round yellow seeds

d) Wrinkled yellow seeds

39) Light seems to travel along straight line paths in a transparent medium. If the light rays are made to go from one medium to another, the light rays change their direction (or bend) at the boundary between the two media.

a) When sunlight is concentrated on a paper placed at the principal focus of a convex lens, what happens to the paper and why?

b) A ray of light is refracted as per the following diagram. Which media A or B is optically denser than other?



c) With respect to air the refractive index of ice is 1.31 and that of rock salt is 1.54. Calculate the refractive index of rock salt with respect to ice.

(or)

For the same angle of incident in media P, Q, and R, the angles of refraction are 45° , 35° and 15° respectively. In which medium will the velocity of light be (a) minimum (b) maximum. Give reason for your answer.

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.
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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)

(20 x 1 = 20)

- 1) Which treaty recognised Greece as an independent nation? Identify the correct treaty from the following questions? (1)
 - a) Treaty of Vienna, 1815
 - b) Treaty of Constantinople, 1832
 - c) Treaty of Versailles 1871,
 - d) Treaty of Paris, 1783
- 2) By Whom was 'Sambad Kaumudi' published In 1821? (1)
 - a) Iswar Chandra Vidyasagar
 - b) C.R. Das
 - c) Raja Ram Mohan Roy
 - d) Swami Vivekananda
- 3) Look at the picture given below. Identify what is shown in the picture from the following options: (1)



- a) Gutenberg's Bible
 - b) A printers workshop, 16th century
 - c) The Macabre dance
 - d) Advertisements at railway station in England
- 4) Arrange the following in chronological order (1)
 - I) The Calcutta Supreme Court passed certain regulations to control press freedom
 - II) Buddhist missionaries from China, introduced hand printing technology into Japan.
 - III) The Children Press, devoted to literature for children alone was set up in France.
 - IV) Johann Gutenberg developed the first known printing press
 - a) I, II, III, IV
 - b) II, IV, I, III
 - c) III, IV, II, I
 - d) I, II, IV, III
 - 5) Find out the Zaid crop from the following (1)
 - a) Wheat
 - b) Coffee
 - c) cucumber
 - d) Peas
 - 6) Which of the following is not correct ? (1)
 - a) Punjab has the highest percentage of protected forests
 - b) The Indian wildlife production Act was implemented in 1982
 - c) Odisha was the first state to pass resolution for Joint forest Management
 - d) The aim of the chipko movement was to resist deforestation
 - 7) Match the columns (1)

A A) Uppermost layer of soil B) New alluvium C) Land degradation D) Landleft uncultivated for more than 5 agricultural years	B i) Khadar ii) Culturable waste lend iii) Top soil iv) Overgrazing
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 - a) A – iii, B – ii, C – i, D – iv
 - b) A – iv, B – iii, C – ii, D – i
 - c) A – iii, B – i, C – iv, D – ii
 - d) A – ii, B – i, C – iii, D – iv
 - 8) Consider the following statement regarding ethnic composition of Belgium and identify the incorrect one from the following: (1)
 - a) 59 percent of total population lives in Flemish region and speaks Dutch language
 - b) 40 percent of total live in Wellonia region and speaks French.
 - c) Remaining one percent speak German
 - d) In Brussels 60 percent people speak French and 40 percent speak Dutch.
 - 9)The system of Panchayat Raj involves (1)
 - a) The Village and District level
 - b) The Village, Block and District level
 - c) The Village, District and State level
 - d) The Village State and Union level.
 - 10) Which of the following statement is true regarding communal politics. (1)

- a) Communalism signifies an ideology which stands for regional harmony and economic status
 b) People of same caste or community have same interest depending on their economic condition.
 c) Communal politics is based on the idea that religion is the principle basis of social community.
 d) The followers of a particular religion must not belong to one community
- 11) Which one among the following pairs is correctly matched? (1)
- | LIST – I | LIST – II |
|---------------------------------|--------------------|
| A) Indian National Congress | Marxism – Leninism |
| B) Bahujan Samaj Party | Jawaharlal Nehru |
| C) All India Trinamool congress | Mamata Banerjee |
| D) Bharatiya Janata Party | Kanshi Ram |
- 12) There are two statements marked as Assertion(A) and Reason(R) . Mark your answer as per the codes provided below. (1)
- Assertion (A): Democracy remains democracy only as long as every citizen has a chance of being in majority sometimes
- Reason (R): Majority and Minority opinions are permanent.
- 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) Which one of the following is a major caste group of Sri Lanka ? (1)
- a) Christian and Tamil b) Buddhist and Hindu c) Sinhali and Tamil d) Sinhali and Christian
- 14) Suggest a viable alternative for multipurpose projects: (1)
- a) Water harvesting b) Rain water harvesting
 c) Flood water harvesting d) Ground water harvesting
- 15) In which of the north eastern states of India is bamboo drip irrigation prevalent? (1)
- a) Manipur b) Assam c) Meghalaya d) Arunachal Pradesh
- 16) Government owns most of the assets and provides all the services in _____ (1)
- a) Private sector b) Public sector c) Organised sector d) Tertiary sector
- 17) GDP refers to _____ (1)
- a) Grand domestic product b) Great domestic product
 c) Gross domestic product d) Goods demand product
- 18) _____ is the apex institution of monetary system of our country. (1)
- a) CBI b) SBI c) RBI d) ICICI
- 19) Which of the following lays stress on liberalization of foreign trade and investment? (1)
- a) International labour organization b) International monetary fund
 c) World health organization d) World trade organization
- 20) Removing trade barriers set up by the government is called _____ (1)
- a) Liberalisation b) Privatisation c) Globalisation d) Socialisation

SECTION – B (Very short answer questions)

(4x2=8)

- 21) How did Britishers utilize trade surplus money ? (2)
- 22) Name some countries where participation of women in public life is very high. (2)
- 23) Define veins and lodes (2)
- (or)
- State any two differences between ferrous and non – ferrous minerals.
- 24) Mention two problems faced by the farming sector. (2)

SECTION – C

(5x3=15)

- 25) Why did the Non – co operation movement gradually slowdown in cities and towns? (3)
- (or)
- Why did Gandhiji decide to launch a nationwide Satyagraha against the proposed Rowlatt Act (1919). How was it opposed? Explain.
- 26) How are roads classified in India according to their capacity? (3)
- 27) How would flexibility in labour laws help companies? (3)
- 28) What are the two types of federation? Explain with examples. (3)
- 29) Explain the working condition of workers in an anorganised sector? (3)

SECTION – D

(4x5=20)

- 30) “The first clear expression of nationalism came with the French revolution in 1789”. Examine the statement. (5)
- (or)
- Who hosted Vienna congress in 1815? Analyse the main changes brought by the Vienna Treaty?
- 31) Discuss the factors that play dominant role in the location of industries (5)
- (or)
- How do industries cause pollution and environmental degradation . Give any five points.
- 32) Describe the importance of political parties in a democratic government (5)
- (or)
- How do state or regional parties contribute in strengthening federalism and democracy in India? Explain with examples.
- 33) How does money solve the problem of double coincidence of want. Explain with an example of your own. (5)
- (or)
- Bring out any 5 differences between formal and informal sources of credit

SECTION – E (Case based questions)

(4x3=12)

- 34) Read the source given below and answer the question that follow
- The history of many business groups goes back to trade with China. From the late eighteenth century, as you have read in your book last year, the British in India began exporting opium to China and took tea from China to England. Many Indians became junior players in this trade, providing finance, procuring supplies, and shipping consignments. Having earned through trade, some of these businessmen had visions of developing industrial enterprises in India. In Bengal, Dwarkanath Tagore made his fortune in the China trade before he turned to industrial investment, setting up six joint-stock companies in the 1830s and 1840s. Tagore's enterprises sank along with those of others in the wider business crises of the 1840s, but later in the nineteenth century many of the China traders became successful industrialists. In Bombay, Parsis like Dinshaw Petit and Jamsetjee Nusserwanjee Tata who built

huge industrial empires in India, accumulated their initial wealth partly from exports to China, and partly from raw cotton shipments to England. Seth Hukumchand, a Marwari businessman who set up the first Indian jute mill in Calcutta in 1917, also traded with China. So did the father as well as grandfather of the famous industrialist G.D. Birla.

- 34.1. What was the trade transactions of British in India with China? (1)
- 34.2. How Indians become junior players in trade with China? (1)
- 34.3. How were Parsis able to build huge industrial empire in India? (1)
- 34.4. Who set up the first Indian Jute Mill in Calcutta? (1)

35) Read the following passage carefully and answer the questions given below:

Ground water is an example of renewable resources. These resources are replenished by nature as in the case of crops and plants. However, even these resources may be overused. For example, in the case of groundwater, if we use more than what is being replenished by rain then we should be over using this resource.

Non-renewable resources are those which will get replenished after years of use. We have a fixed stock on earth which cannot be replenished. We do discover new resources that we did not know of earlier. New resources in this way add to the stock. However, over time, even this will get exhausted

Consequences of environmental degradation do not respect national or state boundaries; this issue is no longer region or nation specific. Our future is linked together sustainability of development is comparatively a new area of knowledge in which scientists, economists, philosophers and other social scientists are working together

- 35.1. How are resources classified based on exhaustibility? (1)
- 35.2. Give an example of renewable resource. (1)
- 35.3. How does the groundwater get replenished? (1)
- 35.4. Who are working together towards sustainability of development? (1)

36. Read the given extract and answer following questions:

Union List includes subjects of national importance such as defence of the country, foreign affairs, banking, communication and currency. They are included in this list because we need a uniform policy on these matters throughout the country. The Union Government alone can make laws relating to the subjects mentioned in the Union List. State List contains subjects of State and local importance such as police, trade, commerce, agriculture and irrigation. The State Government alone can make laws relating to the subjects mentioned in the State List. Concurrent List includes subjects of common interest to both the Union Government as well as the State Governments, such as education, forest, trade unions, marriage, adoption and succession. Both the Union as well as the State Governments can make laws on the subjects mentioned in this list. If their laws conflict with each other, the law made by the Union Government will prevail

- 36.1. What subjects are included in Union list? (1)
- 36.2. Who can make laws on the subject mentioned in the concurrent list? (1)
- 36.3. When there is conflict between Union laws & State laws, whose laws will prevail? (1)
- 36.4. Subjects of local importance is included in which list? (1)

SECTION – E (Map skill based questions)

37.a) Two places A and B have been marked on the given outline map of India. (2x1=2)

Identify them and write their correct names on the lines drawn near them.

- A) The place where the congress session of September 1920 was held. (1)
- B) The place where Jallian wallabagh incident occurred. (1)

37.b) On the political map of India, mark any six of the following places . Also write the question number and name of each item near its location. (1/2 x 6= 3)

- i) Nagarjuna Sagar dam
- ii) Kalpakkam nuclear power station
- iii) Mumbai software technology park.
- iv) Kochi port
- v) Chhtrapathi Shivaji International Airport
- vi) Neyveli coal mines
- vii) Forest soil in the north
- viii) The largest producer of sugarcane.

General Instructions:

- i. Question paper comprises five Sections – A, B, C, D E and F There are 37 questions in the question paper. All questions are compulsory.
- ii. Section A – From question 1 to 20 are MCQs of 1 mark each.
- iii. 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.
- iv. 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
- v. 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.
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- viii. 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.
- ix. In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION - A

Multiple Choice Questions (Q 1 to 20)

2X4=8

1. Which of the following are perfectly matched :

	List I	List II
A.	First European Country to conquer America	Greece
B.	Countries to the east of Mediterranean	Spain
C.	First Asian country to be Industrialised	Japan

- (a) A and B
- (b) Only B
- (c) Only C
- (c) C and A

2. Match the following items given in column I with those in column II.

	Column I		Column II
A.	Supervision of functioning of banks.	1.	Japan
B.	First Asian country to be Industrialised.	2.	Henry Ford
C.	Pioneer of the system of mass production.	3.	Secularism
D.	No official religion, constitution does not give any special status.	4.	Reserve Bank of India

Select the correct option :

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

3. In the above picture of sorrien’s utopian vision, the saints, angle and Christ symbolise-



- a) Equality among people
- b) Fraternity among nations
- c) Freedom of nations
- d) Resentment against nations

4 .Arrange the following events in the ascending year of their occurrence-

- 1. Britain, exporting iron and steel worth about \$77 million.
- 2. Demand for iron and steel increased rapidly with the expansion of railway in England.
- 3. Britain was importing 2.5 million pounds of raw cotton to feed its cotton industry.
- 4. Britain import of raw cotton soared to 22 million pounds.

Option : (a) 2, 4, 3, 1 (b) 3, 4, 2, 1 (c) 3, 4, 1, 2 (d) 2, 3, 1, 4

5. Which of the following is not a physical factor to determine land use?

- a) climate condition b) soil type c) topography d) population density

6. Complete the following table with correct information-

Dams	On the river	State
Bhakra-Nangal	Satluj river	A - ?
Hirakund	B - ?	Odisha

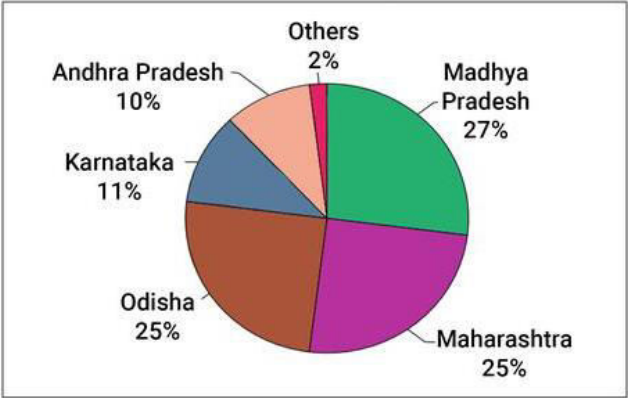
Choose correct option :

- a) A - Gujarat, B – Narmada b) A - Punjab, B - Mahanadi
c) A - Gujarat, B – Krishna d) A - Telangana, B - Krishna

7. How many countries of the world have democratic set-up of government?

- (a) More than hundred countries (b) Less than hundred countries
(c) Less than fifty countries (d) More than fifty countries

8. Observe the following picture carefully and choose the correct answer-



- a) It shows the state wise production of manganese in year 2016-17.
b) It shows the state wise production of iron ore in year 2016-17.
c) It shows the state wise production of stainless steel in year 2016-17.
d) It shows the state wise production of electricity year in the 2016-17.

9. Which of the options best signifies this cartoon-



- a) Showing the fine German engineering.
b) Problems of running the Germany’s grand coalition Government that includes the two major parties of the country.
c) The two parties of the country are historically partners to each other.
d) How smoothly the German Government is running.

10. Identify the Country-

- Is a small country in Europe.
 - Shares borders with France, Netherlands, Germany and Luxembourg.
 - The government divided the powers equally between Dutch and French speaking populations.
 - Power sharing is also seen in political parties.
- Select the appropriate option from the following.

- a) Germany b) Belgium c) Srilanka d) India

11. Which of the following features are common to Indian and Belgian form of power sharing arrangements?

- A. Power is shared among governments at different levels.
 - B. Power is shared among different organs of government.
 - C. Power is shared among different social groups.
 - D. Power is shared among different parties and takes the form of competition.
- (a) A, B, C, D (b) B, C and D (c) A and C (d) A, C and D

12. **Assertion :** In 15th the religious reformer Martin Luther wrote Ninety Five Theses criticising many of the practices and rituals of the Roman Catholic Church.

Reason : This led to a division within the Church and to the beginning of the Protestant Reformation.

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

13. **Assertion (A):** Federations that are formed by ‘holding together’ do not give equal power to its constituent units.

Reason (R): Some states are granted special powers.

- 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.

14. Which of the following is incorrect regarding a federal government?

- a) Federalism is a system of government in which the power is divided between a central authority and various constituent units of the country.
- b) Federation has only one level of government.
- c) One is the government for the entire country that is usually responsible for a few subjects of common national interest.
- d) The others are governments at the level of provinces or states that look after much of the day-to-day administering of their state.

15. Which one of the following is not a developmental goal for the landless rural labourers?

- a) More days of work and better wages.
- b) Local school is able to provide quality education for their children.
- c) There is no social discrimination.
- d) They can not become leaders in the village.

16. Following table shows the workers in different sectors (in millions)

Sector	Unorganised	Organised	Total
Primary	200	2	202
Secondary	50	5	55
Tertiary	80	20	100
Total	330	27	357
Total in percentage			100%

What is the percentage of people in organised sector?

- (a) 8.4% (b) 9.6% (c) 7.6% (d) 10%

17. Read the information given below and select the correct option :
 A study in Ahmedabad found that out of 15,00,000 workers in the city, 11,00,000 worked in the unorganised sector. The total income of the city in this year (1997-1998) was `60,000 million. Out of this `32,000 million was generated in the organised section.
 The number of workers in organised sector is
 (a) 4,00,000 (b) 5,00,000 (c) 10,00,000 (d) 39,000
18. Consider the following statements regarding use of money and identify the incorrect one from the following:
 a) The use of money spans a very large part of our everyday life.
 b) When the two parties have to agree to sell and buy each others commodities is called double coincidence of wants.
 c) Modern forms of money include currency paper notes and coins.
 d) The other form in which people hold money is as promissory note with banks.
19. Which of the following statements is correct with regards to India?
 a) Tertiary sector contributes the maximum to GDP.
 b) India is basically a socialist economy.
 c) In India, distribution of income and wealth is quite equitable.
 d) None of the above
20. Which of the following is not applicable for a worker, who works in the organised sector?
 a) She gets a regular salary at the end of the month.
 b) She is not paid for leave.
 c) She gets medical allowance.
 d) She got an appointment letter stating the terms and conditions of work when she joined this work.

SECTION – B

Very Short Answer Question (Q 21 to 24)

2X4=8

21. State the basic and main objectives of New Economic Policy.

(OR)

Which factors were responsible for price rise of foodgrains in Britain in late nineteenth century was/were ?

22. Efficient means of transport are pre-requisites for fast development of the country.” Support the statement with examples.
 23. “The assertion of social diversities in a democratic country is very normal and can be healthy.” Justify the statement with arguments.
 24. Why do banks and cooperative societies need to lend more ? Explain.

SECTION – C

Short Answer Based Question (Q 25 to 29)

3X5=15

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

(OR)

How did the Non-Cooperation Movement unfold in the cities and towns of India?

26. How had the printing press created a new culture of reading in Europe? Explain with examples.
 27. Explain with examples, how do industries give boost to the agriculture sector.
 28. State any three important features of Federalism.
 29. “Tertiary sector activities help in the development of the primary and secondary sectors.” Evaluate the statement.

SECTION – D

Long Answer Based Question (Q 30 to 33)

5X4=20

30. Describe the impact of the First World war on Indian industries.

(OR)

Describe any three major problems faced by Indian cotton weavers in nineteenth century.

31. Name the two most important cereal crops grown in India. Describe the conditions required to grow these two crops.

(OR)

Give reasons for increasing use of fertilisers in farming.

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

(OR)

What are the characteristics of a political party ?

33. "The impact of globalisation has not been uniform." Explain with examples.

(OR)

Describe the role of technology in promoting globalisation process

SECTION – E

Case Based Question (Q 34 to 36)

4X3=12

34. Read the sources given below and answer the questions that follows:

Oceanic tides can be used to generate electricity. Floodgate dams are built across inlets. During high tide water flows into the inlet and gets trapped when the gate is closed. After the tide falls outside the flood gate, the water retained by the floodgate flows back to the sea via a pipe that carries it through a power-generating turbine.

Shrubs, farm waste, animal and human waste are used to produce biogas for domestic consumption in rural areas. Decomposition of organic matter yields gas, which has higher thermal efficiency in comparison to kerosene, dung cake and charcoal. Biogas plants are set up at municipal, cooperative and individual levels. The plants using cattle dung are known as 'Gobar gas plants' in rural India.

Nuclear or Atomic Energy is obtained by altering the structure of atoms. When such an alteration is made, much energy is released in the form of heat and this is used to generate electric power. Uranium and Thorium, which are available in Jharkhand and the Aravalli ranges of Rajasthan are used for generating atomic or nuclear power. The Monazite sands of Kerala is also rich in Thorium.

Question:

1. What will generate by the oceanic tides?
2. What do Gobar Gas plants operate?
3. How atomic energy is obtained?

35. Read the sources given below and answer the questions that follows:

Source A– Dignity and Freedom of the Citizens

Every individual wants to receive respect from fellow beings. Often conflicts arise among individuals because some feel that they are not treated with due respect. The passion for respect and freedom are the basis of democracy. Democracies throughout the world have recognised this, at least in principle. This has been achieved in various degrees in various democracies.

Source B– Non-democratic Regimes

Democracy stands much superior to any other form of government in promoting dignity and freedom of the individual. Every individual wants to receive respect from fellow beings. Non-democratic regimes often turn a blind eye to or suppress internal social differences. Ability to handle social differences, divisions and conflicts is thus a definite plus point of democratic regimes. It is necessary to understand that democracy is not simply rule by majority opinion.

Source C– Strength of Democracy

Whenever possible and necessary, citizens should be able to participate in decision making that affects them all. Democracy in India has strengthened the claims of the disadvantaged and discriminated castes for equal status and equal opportunity. There are instances still of caste-based inequalities and atrocities, but these lack the moral and legal foundations. Perhaps it is the recognition that makes ordinary citizens value their democratic rights.

Question:

1. What are the basis of democracy?
2. Why democracy is considered as the superior form of government?
3. How does the Indian democracy strengthen the claims of the disadvantaged and discriminated castes?

36. Read the extract and answer the questions that follow:

Besides seeking more income, one way or the other, people also seek things like equal treatment, freedom, security, and respect of others. They resent discrimination. All these are important goals. In fact, in some cases, these may be more important than more income or more consumption because material goods are not all that you need to live. Money or material things that one can buy with it, is one factor on which our life depends. But the quality of our life also depends on non-material things mentioned above. If it is not obvious to you, then just think of the role of your friends in your life. You may desire their friendship. Similarly, there are many things that are not easily measured but they mean a lot to our lives. These are often ignored.

For development, people look at a mix of goals. It is true that if women are engaged in paid work, their dignity in the household and society increases. However, it is also the case that if there is respect for women there would be more sharing of housework and a greater acceptance of women working outside. A safe and secure environment may allow more women to take up a variety of jobs or run a business. Hence, the developmental goals that people have are not only about better income but also about other important things in life.

Question:

1. What are the things other than income which people seek for living?
2. Write any two developmental goals of middle-class woman.
3. What is the role of other important things than income, in life?

SECTION – F

Map Skill Based Question (Q 37a and 37b)

2+3=5

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

- (A) The place where Indian National Congress session was held in December 1920.
- (B) The place where Salt Law was broken by Mahatma Gandhi.
- (b) On the same outline map of India, locate and label any three of the following with suitable Symbols:
 - (i) Paradwip-Major Seaport
 - (ii) Noida-Software Technology Park
 - (iii) Salem-Iron and Steel industry
 - (iv) Kalpakkam-Nuclear Power Plant


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SECTION – A

MCQs

(1 X 20 = 20)

1. What did Dasvolk stand for? Identify the correct statement from the following options.
 (a) Democracy (b) Factory workers (c) Common people (d) Slum workers
 2. Who wrote about the injustices of the caste system in “Gulamgiri”?
 (a) Raja Ram Mohan Roy (b) Jyotiba Phule
 (c) Balagangadhar Tilak (d) Rash Sundari Devi
 3. Look at the picture given below. Identify the name of the painter of this painting from the following options.
 (a) Samant Das Gupta
 (b) Shuman Kubo
 (c) Johann Gutenberg
 (d) Kitagawa Utamaro
- 
4. Arrange the following in chronological order:
 (i) The Grimm Brother's Folk tales were published in a collection
 (ii) Print culture created the conditions for the French Revolution
 (iii) Martin Luther wrote Ninety five Theses against the rituals of the Roman Catholic Church
 (iv) The Roman Church imposed severe controls over publishers and began to maintain an index of prohibited Books.
 (a) (i , iii , iv , ii) (b) (iv , iii , ii , i) (c) (iii , iv , ii , i) (d) (ii , iv , iii , i)
 5. Identify the crop with the help of the following features
 (i) It is a Kharif crop
 (ii) It requires high temperature above 25°C and high humidity
 (iii) It requires annual rainfall above 100 cm
 (a) Wheat (b) Maize (c) Rice (d) Sugarcane
 6. Which one of the following statements is not an argument in favours of Multipurpose river projects?
 (a) Multi-purpose projects bring water to those areas which suffer from water scarcity.
 (b) Multi-purpose projects by regulating water flow help to control floods.
 (c) Multi-purpose projects lead to large scale displacements and loss of livelihood.
 (d) Multi-purpose projects generate electricity for our industries and our homes.
 7. Match the following:
 (a) Upper most layer of soil – (i) Black soil
 (b) New Alluvial soil – (ii) Top soil
 (c) Regur soil – (iii) Bangar
 (d) Old alluvial soil – (iv) Khadar
 (A) a – i , b – iii , c – ii , d – iv (B) a – iii , b – i , c – iv , d – ii
 (C) a – ii , b – iv , c – i , d – iii (D) a – iv , b – ii , c – iii , d – i
 8. Identify the incorrect one from the following:
 (a) Power can be shared among Governments at different levels is called Horizontal power sharing
 (b) Different Organs of Government are legislature, executive and judiciary
 (c) One basic principle of democracy is that people are the source of all political power
 (d) Horizontal power sharing is called as a system of checks and balances

9. Name the state of India which enjoys a special status
(a) Nagaland (b) Manipur (c) West Bengal (d) Uttar Pradesh
10. Which of the following statement is true?
(a) Feminist movements are aimed at equality to all
(b) Communalism signifies an ideology which stands for regional harmony and economic equality
(c) In local Self – Government institutions, atleast two third of all positions are reserved for men
(d) Caste division is not special to India
11. Which one among the following pairs is correctly matched
- | List – I | – | List – II |
|---|---|-----------------------------------|
| (A) The most visible institutions in a democracy | – | (1) Political parties |
| (B) The symbol of the political parties are allotted by | – | (2) The Government of India |
| (C) Modernity | – | (3) The guiding philosophy of NCP |
| (D) Regional party | – | (4) BSP |
12. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:
- Assertion (A) : There is an over whelming support for democracy all over the world
Reason (R) : Democratic Government is people’s own Government
- (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. What is the official religion of Sri Lanka?
(a) Christianity (b) Islam (c) Hinduism (d) Buddhism
14. Read the given data and find out:

Category	Male	Female
Literacy rate for rural population	76%	54%
Literacy rate for rural children in age group 10-14 years	90%	87%
Percentage of rural children aged 10-14 attending school	85%	82%

- It is clear from the table that _____ of rural girls and _____ of rural boys are not attending the school
(a) 15% , 18% (b) 13% , 24% (c) 18% , 15% (d) 17% , 24%
15. Read the following data and select the appropriate option from the following:
- | Region/Country | Reserves (2017)
(Thousand Million Barrels) | Number of Years
Reserves will last |
|--------------------------|---|---------------------------------------|
| Middle East | 808 | 70 |
| United States of America | 50 | 10.5 |
| World | 1697 | 50.2 |
- Countries like _____ have low resources and hence want to secure oil through military or economic power
(a) Middle East (b) USA (c) Russia (d) Pakistan
16. Find out odd one out from the following options:
(a) Farming , Mining , Dairying , Fishing
(b) Engineering , Welding , Gem cutting , Basket weaving
(c) Astronaut , Call centre employee , Money Lenders, Courier
(d) GAIL , SAIL , TATA STEEL , MNCC
17. Fill in the blanks:

Sector	Criteria used
Primary , Secondary & Tertiary	Nature of economic activities
Organised & Unorganised	?

- Options:**
(a) Nature of employment conditions (b) Nature of social activities
(c) Nature of political activities (d) Nature of production activities
18. Read the information given below and select the correct options:
- An authority of India issues currency notes on behalf of the central Government. As per Indian law no other individual or organization is allowed to issue currency. What is it?
(a) The State Bank of Indian (b) The Reserve Bank of India
(c) The Allahabad Bank (d) The Punjab National Bank
19. Which of the following organisations lays stress on liberalisation of foreign trade and foreign investment?
(a) International Labour Organisation (b) International Monetary Fund
(c) World Health Organisation (d) World Trade Organisation

20. Identify the correct statements about MNC's
- | | |
|--|--|
| (i) Setting up partnerships with local companies | (ii) Removal of barriers by the Government |
| (iii) Using the local companies for supplies | (iv) It is to liberalise international trade |
| (a) i , iv | (b) i , iii |
| (c) ii , i | (d) ii , iv |

SECTION – B

Very short answer questions:

(4 X 2 = 8)

21. "The First World War was the First modern industrial war" – Explain.
22. What was Gandhiji's view regarding religion and politics?
23. What is a Mine? Name the different types of mining prevalent in India?
(or)
"Natural gas is an important source of energy" support the statement.
24. Distinguish between open unemployment and disguised unemployment.

SECTION – C

Short answer based questions:

(5 X 3 = 15)

25. How flag was used to promote the spirit of nationalism among the Indians.
(or)
"The First World War created a new economic and political situation" – How? Explain
26. What are Border roads? Mention two reasons why they are important?
27. Explain any three factors that affect the location of industries in a region.
28. What is Panchayati Raj? What is its importance?
29. "Tertiary sector is different from other sector". Justify the statement with suitable arguments.

SECTION – D

Long answer based questions:

(4 X 5 = 20)

30. Explain the process of unification of Italy.
(or)
Write about the theme of Frederic Sorrieu's paintings.
31. "The economic strength of a country is measured by the development of manufacturing industries". Justify this statement with atleast 5 points.
(or)
Discuss the steps to be taken to minimize environmental degradation by industry?
32. "No system is ideal for all countries and all situations? Explain.
(or)

S.No	State	Party Name	Symbol
1	-----	JMM	Bow & Arrow
2	West Bengal	-----	Lion
3	Kerala	Indian Union Muslim Liague	-----
4	-----	Telugu Desam Party	Cycle
5	Delhi	Aam Aadmi Party	-----

33. How do banks play an important role in the economy of India? Explain.
(or)
Explain the role of Self – Help groups (SHGs) in the rural society

SECTION – E

Case based questions:

(3 X 4 = 12)

34. Read the given extract and answer the 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. Surat on the Gujarat coast connected India to the Gulf and Red Sea Ports; Masulipatam on the Coromandel coast and Hoogly in Bengal had trade links with Southeast Asian ports. At the port, the big shippers and export merchants had brokers who negotiated the price and bought goods from the supply merchants operating inland.

- 34.1. Which were the main pre – colonial ports?
- 34.2. Who were involved in this network of export trade?
- 34.3. Which port had trade links with Southeast Asian ports?
- 34.4. At the port, who negotiated the price and bought goods from the supply merchants operating inland?

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

Nature worship is an age old tribal belief based on the premise that all creations of nature have to be protected. Such beliefs have preserved several virgin forests in pristine form called Sacred Groves (the forests of God and Goddesses). These patches of forest or parts of large forests have been left untouched by the local people and any interference with them is banned.

Certain societies revere a particular tree which they have preserved from time immemorial. The Mundas and the Santhal of Chota Nagpur region worship mahua (*Bassia latifolia*) and kadamba (*Anthocaphalus cadamba*) trees, and the tribals of Odisha and Bihar worship the tamarind (*Tamarindus indica*) and mango (*Mangifera indica*) trees during weddings. To many of us, peepal and banyan trees are considered sacred.

- 35.1. Which trees are considered sacred?
- 35.2. In which occasion the tribals of Odisha and Bihar worship the tamarind and mango trees?
- 35.3. The Mundas and Santhal Tribals of which region worship Mahua and Kadamba trees
- 35.4. What is Chipko movement?

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

Sri Lanka is an island nation, just a few kilometres off the southern coast of Tamil Nadu. It has about two crore people, about the same as in Haryana. Like other nations in the South Asia region, Sri Lanka has a diverse population. The major social groups are the Sinhala-speakers (74 per cent) and the Tamil-speakers (18 per cent). Among Tamils there are two subgroups. Tamil natives of the country are called ‘Sri Lankan Tamils’ (13 per cent). The rest, whose forefathers came from India as plantation workers during colonial period, are called ‘Indian Tamils’. Most of the Sinhala – speaking people are Buddhists, while most of the Tamils are Hindus or Muslims.

- 36.1. Besides Sri Lankan Tamils, who is another sub – group of Tamils?
- 36.2. In which part of the country are Sri Lankan Tamils concentrated?
- 36.3. What are the two major social groups in Sri Lanka?
- 36.4. Name the religion followed by Sinhala speakers in Sri Lanka?

SECTION – F

Map Questions:

37. (a) Two places A and B have been marked on the given political map of India. Identify them and write their correct names on the lines drawn near them. (2 X 1 = 2)

- (A) The place where Gandhi called off NCM due to violence
- (B) The place where the congress session was held in December 1920

(b) On the same given political map of India, locate and label any six of the following with suitable symbols. (6 X 1/2 = 3)

- | | |
|--------------------------------|---|
| (i) Sardar sarovar Dam | (ii) Tarapur nuclear power plant |
| (iii) Ramagundam | (iv) Tuticorin |
| (v) Leading producer of rubber | (vi) Gandhi nagar |
| (vi) Forest soil | (viii) Rajiv Gandhi International Airport |

Proposed fee for new registrations & renewal for personal vehicles		
Vehicle type	Registration fee (Rs)	Renewal fee (Rs)
Motorcycle	300	1,000
3-wheeler & quadricycle	600	2,500
LMV (Car/Jeep)	600	5,000
Imported vehicle (car & above)	5,000	40,000
---Proposed fee for new fitness certificate & renewal for commercial vehicles---		
Vehicle type	New fitness certificate (Rs)	Renewal (Rs)
Motorcycle	500	1,000
3-wheeler/ quadricycle	1,000	3,500
Taxi/Cab	1,000	7,000
Medium goods/passenger	1,300	10,000
Heavy goods & passenger	1,500	12,500