

HOLIDAY HOMEWORK FOR AUTUMN BREAK SUBJECT- SCIENCE

CLASS 10

1.SOLVE SAMPLE PAPER 1 AND 2 (LINKS ARE GIVEN BELOW) IN A SEPARATE PRACTICE WORKBOOK(NOTEBOOK).

SAMPLE PAPER 1-

WEEK 1-

https://drive.google.com/file/d/1rHXgtEcdee7qBJZm2XZ48xWC8G_KqQy_/view?usp=drivesdk

SAMPLE PAPER 2-

WEEK 2-

<https://drive.google.com/file/d/13ymcwhYcVkS7gz2W4Xx735rkHxBywvIV/view?usp=drivesdk>

CLASS 9

SOLVE THE FOLLOWING WORKSHEETS AND WRITE THEIR ANSWERS IN A SEPARATE PRACTICE WORKBOOK(NOTEBOOK)

WORKSHEET- FORCE AND LAWS OF MOTION

https://drive.google.com/file/d/1H1oOvgF51TEY3evXmn_11Uu_jDMwy2IU/view?usp=drivesdk

WORKSHEET- STRUCTURE OF ATOM

https://drive.google.com/file/d/1UJaQDMVKkQpKt3D7s0W9bmczKBS_QA2Z/view?usp=drivesdk

HOLIDAY HOMEWORK FOR AUTUMN BREAK (SUBJECT- ENGLISH)

CLASS 10A & 10B

1.SOLVE SAMPLE PAPER 1 AND 2 (LINKS ARE GIVEN BELOW) IN A SEPARATE PRACTICE WORKBOOK(NOTEBOOK).

SAMPLE PAPER 1-

WEEK 1-

<https://docs.google.com/document/d/1G4O72Z30-LKMgYt2MVSBndi5KjTFa5GD/edit?usp=drivesdk&oid=112786810556412521010&rtpof=true&sd=true>

SAMPLE PAPER 2-

WEEK 2-

<https://drive.google.com/file/d/1G5BS9CG9rYMNfYqxa3ssSmUoatOBNUdj/view?usp=drivesdk>

CLASS 11A & 11B

SAMPLE PAPER 1-

WEEK 1-

https://docs.google.com/document/d/1GATK0sDbBU_2KxrZa4jCsM5Dscs94Nct/edit?usp=drivesdk&oid=112786810556412521010&rtpof=true&sd=true

SAMPLE PAPER 2-

WEEK 2-

https://docs.google.com/document/d/1GEomNygXqb5hL2wL1ym_N4onC93pVnkg/edit?usp=drivesdk&oid=112786810556412521010&rtpof=true&sd=true

CLASS 12A & 12B

SAMPLE PAPER 1-

WEEK 1-

https://docs.google.com/document/d/1Fw3bzukyCip2_Z7rIHB6uZxYVdRXlhpy/edit?usp=drivesdk&oid=112786810556412521010&rtpof=true&sd=true

SAMPLE PAPER 2-

WEEK 2-

<https://docs.google.com/document/d/1G-70TDEJRSz8i79NA-GUzbTJUc3Q4DWi/edit?usp=drivesdk&oid=112786810556412521010&rtpof=true&sd=true>

KENDRIYA VIDYALAYA SANGATHAN (DELHI REGION)
HALF YEARLY EXAMINATION
ENGLISH
COMMUNICATIVE - Class IX
SAMPLE QUESTION PAPER 1

Time allowed: 3 hours
Marks: 80

Maximum

General Instructions:

(i) The Question paper is divided into three sections:

Section A - Reading 20 marks

Section B - Writing and Grammar 30 marks

Section C - Literature 30 marks

(ii) All questions are compulsory.

(iii) You may attempt any section at a time.

(iv) All questions of that particular section must be attempted in the correct order.

Section A

Reading (20 Marks)

1. Read the passage carefully. (8)

1. Mankind's fascination with gold is as old as civilization itself. The ancient Egyptians

esteemed gold, which had religious significance to them and King Tutankhamun was buried

in a solid gold coffin 3500 years ago. The wandering Israelites worshipped a golden calf and

the legendary king Midas asked that everything he touched be turned into gold.

2. Not only is gold beautiful, but it is virtually indestructible. It will not rust or corrode; gold

coins and products fabricated from the metal have survived undamaged for centuries. Gold

is extremely easy to work with, one ounce, which is about the size of a cube of sugar, can be

beaten into a sheet nearly 100 square feet in size, and becomes so thin that light passes

through it. An ounce of gold can also be stretched into a wire 50 miles long. Gold conducts

electricity better than any other substance except copper and silver and it is particularly

important in the modern electronic industry.

3. People have always longed to possess gold. Unfortunately, this longing has also brought

out the worst in the human character. The Spanish conquistadores robbed palaces, temples

and graves and killed thousands of Indians in their ruthless search for gold. Often the only

rule in young California during the days of the gold rush was exercised by the mob with a rope. Even today, the economic running of South Africa's gold mines depends largely on the

employment of black labourers who are paid about £ 40 a month, plus room and board and

who must work in conditions that can only be described as cruel. About 400 miners are

killed in mine accidents in South Africa each year, or one for every two tons of gold

produced.

4. Much of gold's value lies in its scarcity. Only about 80,000 tons have been mined in the

history of the world. All of it could be stored in a vault 60 feet square or a super tanker.

5. Great Britain was the first country to adopt the gold standard, when the Master of the

Mint, Sir Issac Newton, established a fixed price for gold in 1717. But until the big discoveries

of gold in the last half of the nineteenth century-starting in California in 1848 and later in

Australia and South Africa-there simply wasn't enough gold around for all the trading

nations to-ink their currencies to the precious metal.

6. An out-of-work prospector named George Harrison launched South Africa in to the gold

age in 1886 when he discovered the metal on a farm near what is now Johannesburg.

Harrison was given a 12 pound reward by the farmer. He then disappeared and reportedly

was eaten by a lion.

7. One of the big gold-mining areas in the Soviet Union is the Kolyma River region, once in

famous for its prison camp. The camp has gone, but in a way nothing has changed. Many

ex-prisoners have stayed on to work in the mines and are supervised, by ex-guards.

8. Despite the current rush to buy gold, 75 percent of the metal goes into jewellery. Italy is

the biggest user of gold for this purpose and money Italian Jewellers even tear up their

wooden floors and burn them to recover the tiny flecks of gold.

Answer the following questions briefly:

(i) What are the two advantages of gold?

(ii) "The fascination for gold is as old as civilization". How is it proved by the author?

(iii) Which country is first to adopt the gold standard?

(iv) Where did George Harrison discover gold?

(v) Why is Kolyama River region famous?

(vi) How did the longing to possess gold bring out the worst in the human character?

(vii) How is gold virtually indestructible.

(viii) Which country is the biggest user of gold for jewellery purpose?

2. Read the passage carefully.(12)

1. Education is the beginning of empowerment. It is a key to happy and satisfactory life for

the special children, who are cruelly segregated from the society. In India, there are around

35 million disabled children but less than one per cent have access to education. The most

pressing need is to bestow the precious gift of education on them and let them be the bearer

of torch towards the path of progress.

2. Special children, without education, are a burden on their families as well as society. The

crude discrimination between normal and abnormal children leads to severe psychological

disorders, giving birth to frustration which we all know, is not healthy for any progressing

nation. Several NGOs are working towards the upliftment and betterment of such children,

but again a grave problem that is faced by the volunteers is lack of motivation in such

children and even their families. Those who are from the well-to-do families may not find

themselves in this menace, but those belonging to the lower economic section feel that the

effort to obtain education is simply wastage of time and energy not to say anything about

money.

3. Another factor which is hindering the path of education for such children is the lack of

opportunities or facilities available in schools. Even if the parents do send such children to

school, the schools themselves are sadly lacking the facilities to cater to their needs. The

government has started the 'Integrated System of Education' that enables the disabled to

study with normal children in normal circumstances with few facilities for them. Yet again

we find psychological barriers amongst impaired children that they cast themselves in a

hard mould. Special schools have also been established by the government and NGOs to meet

specific needs of such children but their number is pitifully low as compared to the normal

schools.

4. There is an urgent need to strike at the roots of this neglect to enable the disabled.

-Kavita Goel (Offspring), The Times of India

A. Answer the following questions briefly:

- (i) Who are special children?
- (ii) Why is education important for 'special children'?
- (iii) Why should the discrimination between normal and 'special' children be avoided?
- (iv) What is the hindrance on the path of education for 'special' children?

B. Find a word in the passage which conveys similar meaning as the following:

- (i) separated
- (ii) authorization
- (iii) bias
- (iv) with something absent or lessened

Section B

Writing and Grammar(30 marks)

3. You decide to write an article in the school magazine on how it is important to save

the planet, Earth. Write the article in about 180 words.(5)

4. Writing story with the help of the clues given below. Given a suitable title. (10)

Shantanu has to return home - he waits for the train at the wrong station - misses his train -

spends whole night at railway station - catches a train next morning - travels in the general

compartment - finally reaches home.

5. Choose the best word from the options given below and complete the following

passage.(3)

Nearly 100 million years ago (i) ____ the middle of what is now Mongolia, (ii) ____ was a

series of events including a massive volcanic eruption. The ashes (iii) ____ scattered over

the wet soil of the land (iv) ____ sticky mud. Meat- eating dinosaurs and other creatures

in the area (v) ____ , for food (vi) ____ an early and sudden death as they sank in the mud.

- (i) (a) in (b)on (c) over (d) at
- (ii) (a) their (b)there (c) here (d) that
- (iii) (a) those (b)that (c) which (d) thus
- (iv) (a) form (b)formed (c) forming (d) forms
- (v) (a) looking (b)looked (c) looks (d) look
- (vi) (a) meet (b)meeting (c) meets (d) met

6. The following passages have not been edited. There is an error in each of the lines

against which a blank is given. Write the incorrect word and the correction in the space

provided. (4)

	Incorrect	correct
Folk tales offer lots of advice.		
Much of them deliver the message		(a) _____
quite clear. There is a story about		(b) _____
Birbal not being allowed to attending		(c) _____
the king's free lunch. The reasons was		(d) _____
which he was not dressed properly.		(e) _____
This happened in spite of the high intellectual abilities		(f) _____
The advice thus conveyed was:		(g) _____
"Don't judge the book by its cover."		(h) _____

7. Rearrange the following to form meaningful sentences. (3)

- (a) should / water / be / before / boiled / drinking / filtered / and
- (b) chew /food / your / you /should /properly /swallowing /before
- (c) Nitya /as /works /a /engineer /software /Gurgaon /in

8. Look at the comic strip and complete the passage given below.

(5)



The child called out to his mother to (a) The mother replied that (b) She asked her son if (c) Her son replied in the affirmative. He added that (d) The mother then wanted to know what (e)

Section C

Literature and Long Reading Text (30 marks)

9. Read the extracts and answer the questions that follows: (3x2=6)

(i) **'Those who saw it said the dog knew instantly.'**

(a) What does 'it' stand for?

(b) What do you mean by 'instant'? What did the dog know instantly?

(c) Which characteristics of the dog are highlighted in the above line?

(ii) **"A voice so thrilling ne'er was heard
In spring time from the cuckoo bird;
Breaking the silence of the seas
Among the farthest Hebrides"**

(a) Why does the poet compare the reaper's voice to the song of the cuckoo bird?

(b) Name the poet of the poem.

(c) Name the literary device used in the third line.

10. Answer the following questions in about 30-40 words each.
(2x5=10)

(a) Why did the grandmother think of learning to read and write at the age of sixty-two?

(b) Describe Mr. Bramble as he has been described in the story.

(c) Why did the poet leave the first road?

(d) Why does the poet want the passers-by to "stop here or gently pass"?

(e) Do you think Private Quelch learnt a lesson when he was chosen for cookhouse duties?

11. What was the 'next objective' set by Chuck Hooper? How and with whose help did he

hit the target?

(4)

Or

Describe the sound and music created by the brook during its journey.

12. At first, Private Quelch was a hero in the eyes of his fellow soldiers. Support this observation with suitable examples from the story in about 100 words.

(4)

OR

What is the theme or the message of the poem 'The Road Not Taken'?

13. After Duke's death, Marcy was asked to write an article for the local newspaper. She decides to write on the topic - 'A dog is a man's best friend'. Write it for her in about 150 words.

OR

You are Juliette. You feel duped and cheated by Gaston. You decide to take legal action against him. Write a letter to your friend in about 150 words, sharing this incident and the action you plan to take against him.

(6)

KENDRIYA VIDYALAYA AFS KUMBHIRGRAM

Holiday Homework (Autumn Break 2023-24)

Class-IX

Subject: Social Science

Q1-Write one page on any social issue daily in English. Notice issue from newspapers or television.

Q2-Prepare Chapter notes of Climate and Electoral politics in your notebook.

Q3-Write the chapter exercise of Climate and Electoral politics in your notebook.

Q4-Prepare a Project file of 15-20 pages on A4 size sheets on Disaster Management:

Natural Disaster

or

Man Made Disasters

(Note: project should be handwritten and not printed. Include maps, diagrams, images and tables.)

Q5- Solve the sample paper given in class.

KENDRIYA VIDYALAYA AFS KUMBHIRGRAM

SOCIAL SCIENCE HOLIDAY HOMEWORK

CLASS VI

CHAPTER -8 NEW QUESTIONS AND IDEAS (HISTORY)

Activity 1- Identify and collect the copy of pictures which have a national emblem on them. E.g. Passport, Coins, Rupee, Adhaar Card etc. Paste the pictures in your notebooks

CCT Question 1- What are the teachings of Buddhism which are most required in present world and why?

CHAPTER 6- RURAL ADMINISTRATION

Activity 2-Write a letter to your friend informing her/him about the process of land record maintenance and its importance in the proper functioning of the village administration.

CCT question 2-Technology is playing an important role in the field of agriculture. Can you think of different ways in which the latest technology is helping in the field of agriculture.

CHAPTER 5- MAJOR DOMAINS OF THE EARTH

Activity 3-Prepare a poster to show either causes or consequences of the GLOBAL WARMING.

CCT question 3-When human beings cannot inhabit Antarctica, how do scientists establish their research centers in Antarctica?

*Do holiday homework in holiday homework notebook

ARTIFICIAL INTELLIGENCE

SAMPLE TEST PAPER— 1

Class IX

Time: 2 Hours Max. Marks: 50

General Instructions:

1. This question paper consists of two parts viz. Section A: Employability Skills and Section B: Subject Skills.

2. Section A: Employability Skills (10 Marks)

i. Answer any 4 questions out of the given 6 questions of 1 mark each.

ii. Answer any 3 questions out of the given 5 questions of 2 marks each.

3. Section B: Subject Skills (40 Marks)

i. Answer any 10 questions out of the given 12 questions of 1 mark each.

ii. Answer any 4 questions out of the given 6 questions of 2 marks each.

iii. Answer any 4 questions out of the given 6 questions of 3 marks each.

iv. Answer any 2 questions out of the given 4 questions of 5 marks each.

4. This question paper contains 39 questions out of which 27 questions are to be answered.

5. All the questions of a particular part/section must be attempted in the correct order.

6. The maximum time allowed is 2 hours.

SECTION—A

Employability Skills: (10 Marks)

A. Answer any 4 questions out of the given 6 questions of 1 mark each. ($1 \times 4 = 4$)

1. is the means through which the message travels from the source to the receiver.

a) Communication Channel b) Environmental Barrier

c) Feedback d) Communication Cycle

2. people are able to recognise their strengths and accept weaknesses at the same time.

a) Arrogant b) Unconfident

c) Self-confident d) Negative

3. Ginny is a new student in the class who has come from Assam to Delhi. He is feeling shy to interact with the other

Students in the class. Which factor is influencing such behaviour of him?

- a) Physical Factor b) Social Factor
- c) Cultural Factor d) Environmental Factor

4. Shubham wants to take the backup of a very important file. Which portable storage device should he use for the

Same?

- a) Blu-ray disc b) Pen drive
- c) CD d) RAM

5. A Business uses raw material, labour, and other production processes to manufacture goods.

- A) Manufacturing b) Merchandising
- c) Hybrid d) Service

6. An aquarium is an example of an

- a) Habitat b) Abiotic components
- c) Non-living matter d) Ecosystem

B. Answer any 3 questions out of the given 5 questions of 2 marks each. ($2 \times 3 = 6$)

7. Write and explain any two features of effective communication.

8. Describe briefly the three key skills required for self-management.

9. What do you mean by peripheral devices? How can we categorise them?

10. What do you understand by the term Business? What are the four forms of business organisations based on

Ownership?

11. What are the benefits of moving towards green economy?

SECTION—B

Subject Skills: (40 Marks)

C. Answer any 10 questions out of the given 12 questions of 1 mark each. ($1 \times 10 = 10$)

12. Which of the following is not a data visualisation tool?

- a. Microsoft Excel b. Google Data Studio

c. Qlikview d. None of the above

13. In a decision tree, the final node which does not split into sub nodes is called?

a. Interior Node b. Exterior Node

c. Terminal Node d. Root Node

14. For which type of neural network training, the networks are trained to provide correct output by using

Several example inputs?

a. Supervised Learning b. Unsupervised Learning

c. Reinforcement Learning d. None of the above

15. Artificial can be used in which of the following fields?

a. Speech Recognition b. Natural Language Processing

c. Vision Systems d. All of the above

16. Watson is an AI system developed by which of the following companies?

a. Apple b. Microsoft

c. Amazon d. IBM

17. are people responsible for collecting, analysing and drawing interpretation from huge datasets.

A. Machine Learning Engineers b. Data Scientists

c. AI Research Scientists d. Business Intelligence Developer

18. DeepMind AI technology was created by

19. data contains both location and time information.

20. The node at the top or a beginning of a tree is known as a

21 is the first step after Identifying the problem in developing AI projects.

22. is used for producing meaningful phrases and sentences in the form of natural language. (Natural

Language Generation)

23. State whether True or False (0.5 Marks each):

a. The nodes in Artificial Neural Networks can take inputs from only one other node. (True/False)

b. Discrete numerical data is the data which only contains whole numbers. (True/False)

D. Answer any 4 questions out of the given 6 questions of 2 marks each. ($2 \times 4 = 8$)

24. Mention the role of a data scientist.

25. Define Machine Learning.

26. What is meant by Unsupervised Learning?

27. Briefly describe Data Visualisation

28. Write a short note on Big Data.

29. Define structured data.

E. Answer any 4 questions out of the given 6 questions of 3 marks each. ($3 \times 4 = 12$)

30. Give 3 real-life examples of artificial intelligence.

31. How has AI helped in automation?

32. Write a note in Computer Vision.

33. Discuss the types of Weak AI Systems.

34. Explain the Black Box Problem in AI.

35. Write a short note on decision trees.

F. Answer any 2 questions out of the given 4 questions of 5 marks each. ($5 \times 2 = 10$)

36. Discuss about the ethical concerns regarding artificial intelligence with an example.

37. How is AI helping to achieve sustainable development goals?

38. Discuss the uses of Neural Networks.

39. Write a short note on the evaluation and deployment stage in an AI Project cycle.

KENDRIYA VIDYALAYA AFS KUMBHIGRAM

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS: VIII SUBJECT: AI (SESSION- 2023-24)

- 1. Write a short note on AI.**
- 2. What are the advantages and disadvantages of AI?**
- 3. Observe your surroundings and list how the growth of AI is helpful in different sectors of our society.**

KENDRIYA VIDYALAYA AFS KUMBHIGRAM

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS: VI SUBJECT: COMPUTER (SESSION- 2023-24)

1. Write a brief note on history of computer. Collect pictures.
2. What are the different chart styles available in MS-Excel. Explain any 6 with diagram.

KENDRIYA VIDYALAYA AFS KUMBHIGRAM

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS: VII SUBJECT: COMPUTER (SESSION- 2023-24)

Q1. Explain the ways you can keep your computer protected.

Q2. Write an HTML program to show the list of course offered in your school for class XI. (Use list and insert the logo of your school) Note: paste the output below the written answer)

Q3. Write a short note on DTP software and it's advantages.

केन्द्रीय विद्यालय वायुसेना स्थल कुम्भीरग्राम

शरदवकाशकालीन गृहकार्य

कक्षा-6

विषय- संस्कृत

.....
प्रश्न 1. बालक, बालिका एवं पुष्प के शब्दरूप एक एक बार लिखें एवं सीखें।

प्रश्न 2. पाठ 6 (समुद्रतटः) एवं पाठ 7 (बकस्य प्रतीकारः) की सुलेख एवं अर्थ एक एक बार लिखें एवं सीखें।

प्रश्न 3. पाठ 5 (वृक्षाः) की एक बार सुलेख लिखें एवं अर्थ सीखें।

परियोजना कार्य/प्रोजेक्ट कार्य— चार्ट पेपर पर कोई 10 चित्र बनाकर उनके संस्कृत में नाम लिखें एवं सीखें।

— — —

केन्द्रीय विद्यालय वायुसेना स्थल कुम्भीरग्राम

शरदवकाशकालीन गृहकार्य

कक्षा-7

विषय- संस्कृत

.....
प्रश्न 1. पुस्तक के अंत में दी हुई संस्कृत की वर्णमाला को दो बार लिखें एवं सीखें।

प्रश्न 2. पाठ आठ की सुलेख एवं इसका अर्थ एक बार लिखें एवं सीखें।

प्रश्न 3. पुस्तक के अंत में दिए हुए संख्यावाचक (संख्यावाचकशब्दाः) शब्दों से 50 तक संस्कृत में गिनती लिखो।

परियोजना कार्य/प्रोजेक्ट कार्य— चार्ट पेपर पर चित्र बनाकर संस्कृत में कहानी लिखो।

— — —

केन्द्रीय विद्यालय वायुसेना स्थल कुम्भीरग्राम

शरदवकाशकालीन गृहकार्य

कक्षा-8

विषय- संस्कृत

-
- प्रश्न 1. अस्मद्, युष्मद् के शब्दरूप दो दो बार लिखें एवं सीखें।
- प्रश्न 2. 'खाद्' के धातुरूप पांचों लकारों में लिखें एवं सीखें।
- प्रश्न 3. पाठ 7 (भारतजनताऽहम्) के श्लोकों की सुलेख एवं इनके अर्थ लिखें एवं सीखें।

परियोजना कार्य/प्रोजेक्ट कार्य— चार्ट पेपर पर संस्कृत के महान कवियों (एक या एक से अधिक) के चित्र बनाकर उनकी जीवनी लिखो।

— — —

केन्द्रीय विद्यालय वायुसेना स्थल कुम्भीरग्राम

शरदवकाशकालीन गृहकार्य

कक्षा-10

विषय- संस्कृत

.....

प्रश्न 1. पाठ्यक्रम में निर्धारित सभी प्रत्ययों के 7-7 उदाहरण लिखो। (केवल शेमुषी के पाठों से)

प्रश्न 2. पाठ्यक्रम में निर्धारित सभी संधियों के कम से कम 5-5 उदाहरण लिखो एवं सीखो (केवल शेमुषी के पाठों से)

प्रश्न 3. पाठ्यक्रम में निर्धारित सभी समासों के कम से कम 5-5 उदाहरण लिखो एवं सीखो। (केवल शेमुषी के पाठों से)

परियोजना कार्य/प्रोजेक्ट कार्य— पाठ्यक्रम में निर्धारित समय लेखन के कम से कम 7 उदाहरणों को चार्ट पेपर पर सचित्र (घड़ी को बनाते हुए) बनाओ एवं सीखो।

— — —

CLASS –VIII

SUBJECT- MATHS

- (i) Practice all Exercise Problems and Examples of chapter - 9 (**Algebraic Expressions and Identities**) in your practice notebook.
- (ii) Learn tables till 25 and do your work neatly.
- (iii) Write **LEARNER'S DIARY** for Chapter- 9 in Maths **LD copy**.
- (iv) Activity Based Problem on **Geometrical interpretation**
(Write and paste figures on Maths lab activity notebook)

Addition of Algebraic Expressions :

$$(x^2 + 2x + 4) \text{ and } (2x^2 + 3x + 2)$$

PROJECT WORK:

Prepare a beautiful chart on **Algebraic Expressions** and define terms ,factors, like terms ,unlike terms ,operation on algebraic expression.

AUTUMN BREAK HOMEWORK (2023-2024)

CLASS –IX

SUBJECT- MATHS

- (i) Practice all Exercise Problems and Examples of chapter – 7 (**Triangle**) and 8 (**Quadrilaterals**) in your practice notebook.
- (ii) Learn tables till 30 and do your work neatly.
- (iii) Activity based problem on chapter **Quadrilaterals** (Write and paste on Maths lab activity notebook)
“Verify that the straight line joining the midpoints of any two sides of a triangle is parallel to the third side and is equal to half of it ”

PROJECT WORK: (Assigned according to your Roll No.)

1. Prepare a chart on concept of congruent triangles (Congruence Rules -SSS, SAS,ASA,RHS) [**ROLL NO. 1 to 25**]
2. Prepare a chart on The Mid-point Theorem. [**ROLL NO. 26 to 54**]

SECTION-A

Reading

Read the following poem and do as directed:

20 Marks
(10 marks)

LETTER FROM A PARENT

Dear Sir,

I feel I ought to write
About Tom's essay-work last night.
Of all the subjects you have set
This seemed the most unwise yet.
"Describe your family" Tom wrote it,
So well, I just had to stop it.
Being handed in ; —so did my wife.
The details of our family life
Are not such a kind Alas !

That I should want them read in class:
We did not wish the High School staff
To read them for a-lunch-hour-laugh.
We tore it out. I realize
You may think what we did unwise—
But give it your consideration
And please accept my explanation.
I trust you will not blame my son,
For, after all, the work was done.

Yours truly
Harold Honeybun

Choose the most appropriate option for each answer: (4 marks)

1. The father forbids his son to submit the essay to his teacher because _____.
(a) it reveals the details of the family
(b) it reveals his son's mischief
(c) it reveals the family's financial position
(d) none of the above
2. Submitting the essay to the teacher would cause the staff of the school to _____.
(a) weep (b) laugh (c) cry (d) shout
3. According to the poet, the person to be blamed for Tom not submitting his essay is _____.
(a) his father (b) his sister (c) society's head (d) his teacher

4. Tom, according to his father, should be pardoned because he was _____.
 (a) the culprit (b) a criminal (c) ignorant (d) innocent

5. The letter is written to the _____.
 (a) Principal (b) director (c) peon (d) teacher

2. Fill in the blanks with one word each:

(4 marks)

The (a) _____ in the current poem does not want the (b) _____ to learn the details of his (c) _____. Hence he forbids his son to write the (d) _____.

3. Write the synonyms of these words from the poem:

(2 marks)

(a) appeared (b) wish

2. Read the poem given below and complete the passage that follows:

(5 marks)

The glories of our blood and state
 Are shadows, not substantial things;
 There is no armour against fate;
 Death lays his icy hand on Kings:
 Sceptre and Crown
 Must tumble down,
 And in the dust be equal made
 With the poor crooked scythe and spade.
 Some men with sword may reap the field,
 And plant fresh laurels where they
 kill:
 But their strong nerves at last must
 yield;

They tame but one another still:
 Early or late
 They stoop to fate,
 And must give up their murmuring breath
 When they, pale captives, creep to death.
 The garlands wither on your brow;
 Then boast no more your mighty deeds;
 Upon Death's purple altar now
 See where the victor-victim bleeds:
 Your heads must come
 To the cold tomb;
 Only the actions of the just
 Smell sweet, and blossom in their dust.

Man should not feel (a) of one's birth and high position. They are (b) things. There is no defence against (c) Death puts an end to the life of (d) who become one with (e)

3. Read the passage given below and answer the questions that follow:

(5 marks)

Long years ago we made a tryst with destiny, and now the time comes when we shall redeem our pledge, not wholly or in full measure, but very substantially. At the stroke of the midnight hour, when the world sleeps, India will awake to life and freedom. A moment comes, which comes but rarely in history, when we step out from the old to the new, when an age ends, and when the soul of a nation, long suppressed, finds utterance. It is fitting that at this solemn moment we take the pledge of dedication to the service of India and her people and to the still larger cause of humanity.

At the dawn of history India started on her unending quest, and trackless centuries are filled with her striving and the grandeur of her success and her failures. Through good and ill fortune alike she has never lost sight of that quest or forgotten the ideals which gave her strength. We end today a period of ill fortune and India discovers herself again. The achievement we celebrate today is but a step, an opening of opportunity, to the greater triumphs and achievements that await us. Are we brave enough and wise enough to grasp this opportunity and accept the challenge of the future ?

—*Jawaharlal Nehru*

1. Identify the event being celebrated.
2. Explain: "... India will awake to life and freedom."
3. What promise is the speaker talking about?
4. What is the speaker doubtful about?
5. Write the synonym of 'victories' from the passage.

SECTION-B

Writing

25 Marks

4. *Rakesh is worried about using a taxi in China, so he asks his friend Kunal how to use a taxi in Beijing. Write their communication in not more than 60 words. (4 marks)*
5. *You are feeling quite bad today as your best friend has left the school and shifted to some other city with her parents. today, both of you also exchanged some gifts. Express your feelings in the form of a diary entry. (6 marks)*
6. *Look at the picture. It is about the cruel treatment meted out to animals. Using this information, write an article on the topic 'Cruelty to Animals'. Give suggestions on how to improve the lot of these animals. (7 marks)*



7. *Develop a story with the following beginning: (8 marks)*
I was swimming. Suddenly I came across a crocodile ...



CBSE

Additional Practice Questions

Subject: SOCIAL SCIENCE (CODE 087)

Class: X | 2023-24

Time Allowed: 3 Hours

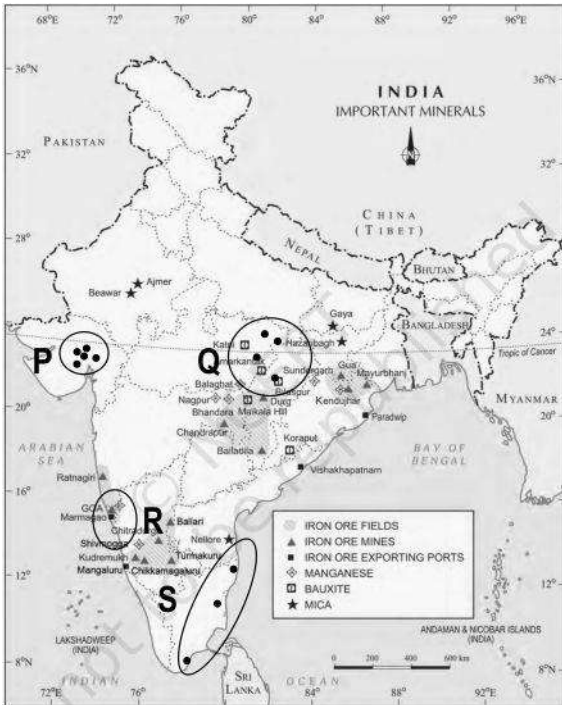
Maximum Marks: 80

General Instructions:

1. The question paper comprises of 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 questions 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. Answer to each question should not exceed 100 words.
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 (1X20=20)

1	How was the Rowlatt Act of 1919 perceived in terms of fundamental rights and civil liberties by Indians? (a) It was viewed as a regressive legislation in favour of the majority Indians. (b) It was considered as severely curtailing the right to personal liberty.	1
---	---	---

	<p>(c) It was seen as a necessary measure to prevent communal tensions.</p> <p>(d) It was regarded as a safeguard for protecting British soldiers.</p>	
2	<p>Ankur, a resident from Rajasthan, decided to install a submersible water pump in his house, capable of extracting groundwater from depths of 250-300 m. This practice of installing similar pumps is becoming increasingly popular across the state.</p> <p>Which of the following will this growing practice MOST LIKELY lead to in the near future?</p> <p>(a) decline in the groundwater quality</p> <p>(b) reduced monsoon water resources</p> <p>(c) increased number of waterborne diseases</p> <p>(d) water scarcity resulting from excessive utilization</p>	1
3	<p>Observe the map given below showing the distribution of thermal and nuclear power plants across India.</p>  <p>Air Quality Index (AQI) is used to measure real-time air pollution levels. A high AQI represents poor air quality.</p> <p>Accordingly, which of the following regions marked on the map is LIKELY to experience comparatively better AQI?</p>	1



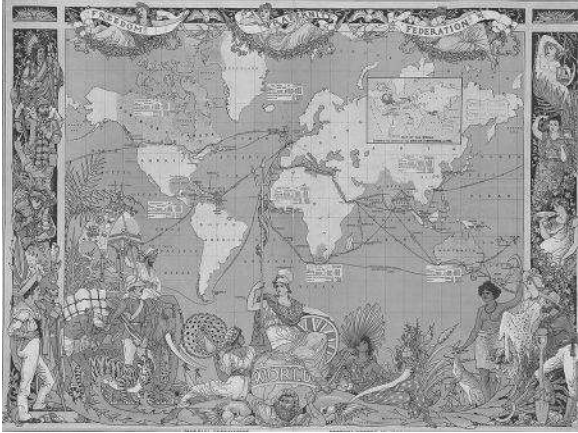
	<p>(a) P (b) Q (c) R (d) S</p> <p>The following question is for Visually Impaired Students ONLY in lieu of Question 3.</p> <p>Which method of energy production is environmentally friendly and practical for powering homes across regions in India?</p> <p>(a) coal-fired power plants (b) nuclear power plants (c) solar power panels (d) diesel generators</p>	
4	<p>Rina, a 28-year-old woman from a marginalized community, is uneducated but adept at making traditional handicrafts. Her family toils hard to afford two square meals everyday.</p> <p>Accordingly, which development objective would be the <u>MOST</u> crucial for improving Rina's and her kin's well-being?</p> <p>(a) increasing access to clean energy in Rina's community (b) reducing the impact of climate change on Rina's community (c) creating more training opportunities for Rina and other artisans (d) ensuring that Rina has the same rights and opportunities as men in her community</p>	,
5	<p><i>'India's green energy goals have a serious problem – the Great Indian Bustard'</i> <i>A Wildlife Institute of India (WII) survey covering 80 km of power lines across the Thar desert found 4 bustard (critically endangered species) deaths during a single year due to high-transmission wires, including some connected to wind turbines.</i> Source: The Print</p> <p>Should the installation of such power lines be reconsidered in areas where such species are found?</p> <p>(a) Yes, alternative methods of power generation should be explored to minimise this risk. (b) Yes, the goal of protecting biodiversity is the only goal which should be prioritised.</p>	1



	(c) No, the benefits of power lines outweigh the negative impact on the species. (d) No, the species is not yet extinct and currently no action needs to be taken.	
6	<p>There are two statements given below, marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.</p> <p>Assertion (A): Power sharing can help to prevent conflict in society.</p> <p>Reasoning (R): Power sharing ensures that different social groups are included in decision-making processes, reducing marginalisation and fostering inclusivity.</p> <p>(a) A is true but R is false. (b) A is false but R is true. (c) Both A and R are true and R explains A. (d) Both A and R are true but R does not explain A.</p>	1
7	<p>In an Indian state, communities X and Y have been engaged in a long-standing conflict over issues of co-existence and resource sharing. The tensions have intensified, leading to a demand from both communities for self-administration.</p> <p>What is the BEST resolution to this conflict?</p> <p>(a) collapsing the present government due to its inefficiency in governing the state (b) delaying the demands of self-administration and maintaining the current power structure (c) imposing strict regulations to control the movements and interactions of both communities (d) establishing a power-sharing arrangement where both communities have a role in decision-making</p>	1
8	<p>Which of the following is a DEFINITE indicator of the successful implementation of democratic governance?</p> <p>(a) free economy dictated by market forces (b) provision of basic amenities to the citizens (c) establishment of central financial institutions (d) establishment of institutions to protect people's rights</p>	1
9	<p>There are two statements given below, marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.</p> <p>Assertion (A): Self-Help Groups are instrumental in promoting economic democracy.</p>	1

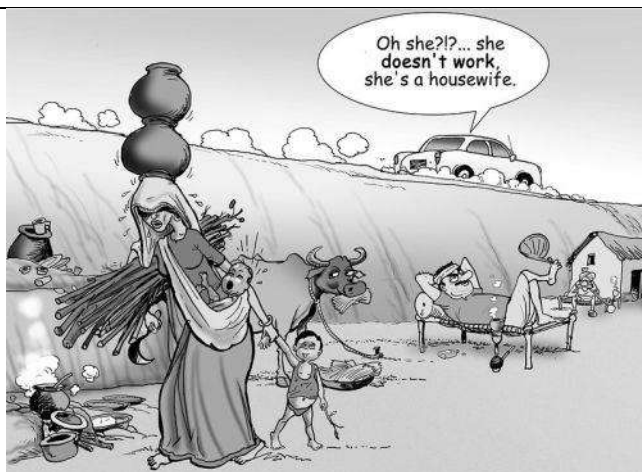


	<p>Reasoning (R): They contribute to a more equitable distribution of economic power and opportunities.</p> <p>(a) A is true but R is false.</p> <p>(b) A is false but R is true.</p> <p>(c) Both A and R are true and R explains A.</p> <p>(d) Both A and R are true but R does not explain A.</p>	
10	<p>The principle of subsidiarity emphasises that decisions should be made by the people who are most affected by them, promoting decentralisation, efficiency, and citizen participation in governance, with higher levels of authority intervening only when lower level authorities are unable to address certain issues effectively.</p> <p><i>Source (edited): un.org</i></p> <p>Which of the following constitutional principles/legislations is in close alignment with the principle stated above?</p> <p>(a) separation of power between the executive, legislature and judiciary</p> <p>(b) division of power between the central, state and local government</p> <p>(c) right of individuals to form and join political parties of their choice</p> <p>(d) reservation for women in the highest law making bodies</p>	1
11	<p>Globalisation is the increasing interconnectedness of the world through the flow of goods, services, capital, ideas, and people.</p> <p>Which of the following examples represents globalisation?</p> <p>(a) an online advertising portal for goods sold by local vendors run by the Indian government</p> <p>(b) an IKEA store in Bengaluru selling products manufactured in China</p> <p>(c) a traditional Vietnamese market selling handicrafts in Hanoi</p> <p>(d) a sunday market selling groceries produced locally</p>	1
12	<p>The Indian masses willingly participated in the Civil Disobedience Movement, despite the challenges faced during the Non-Cooperation Movement. Accordingly, which of the following quotes <u>BEST</u> reflects the outlook of the masses?</p> <p>(a) 'The greatest glory in living lies not in never falling, but in rising every time we fall'</p> <p>(b) 'An eye for an eye only ends up making the whole world blind'</p>	1

	<p>(c) 'Injustice anywhere is a threat to justice everywhere'</p> <p>(d) 'Obedience is the key to a peaceful society'</p>	
13	<p>Given below is the painting 'Imperial Federation - Map of the World showing the extent of the British Empire in 1886'. Observe the painting and answer the question that follows.</p>  <p>Source: https://exhibits.stanford.edu</p> <p>Which of the following elements depicted in the painting seem conflicting when presented together?</p> <p>(a) the British soldiers and British colonies spread in both east and west</p> <p>(b) the variety of animals and costumed figures depicting countries and their people</p> <p>(c) Britannia, the personification of Britain, seated on top of the world and the words federation written at the top of the image</p> <p>(d) the words 'freedom' and 'fraternity' written at the top and Atlas, depicting human labour, holding the world upon his shoulders</p> <p><u>Note: The following question is for Visually Impaired Candidates only in lieu of Q. No. 13</u></p> <p>Read the information given below about the painting - 'A map celebrating the British Empire'.</p> <p>The painting has a map that commemorates the British Empire, symbolising its territorial holdings and influence across various regions of the world.</p> <p>Given below are a few elements that have been depicted in the painting. Identify the ones which are conflicting when presented together.</p> <p>(a) the idea of freedom and imperialism</p> <p>(b) the colonial nations and the colonies</p>	1



	(c) the occupations of a farmer and a soldier (d) the British and people from different backgrounds together	
14	<p>There are two statements given below about the Print Revolution, marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.</p> <p>Assertion (A): The distribution, application, and preservation of knowledge were fundamentally altered with the invention of printing. Reason (R): Printing enabled intellectuals to produce, comment on, and evaluate texts which spread as ideas across Europe.</p> <p>(a) A is true but R is false. (b) A is false but R is true. (c) Both A and R are true and R explains A. (d) Both A and R are true but R does not explain A.</p>	1
15	<p>Which of the following is the PRIMARY factor which contributed to the emergence of multiple political parties at the same level in India?</p> <p>(a) a federal political system (b) varied economic conditions (c) linguistic and regional diversity (d) low levels of literacy and political awareness</p>	1
16	<p>Which of the following policy decisions by the central government could potentially serve as a trade barrier?</p> <p>(a) strengthening export subsidies (b) simplifying customs procedures (c) implementing higher tariffs on imports (d) promoting fairer trade practices globally</p>	1
17	<p>Given below is a cartoon created by Neelabh Banerjee, the renowned Indian cartoonist, illustrator and comics artist.</p>	1



Source: asiapacific.unwomen.org

What is the cartoon trying to depict?

- (a) the sexual division of labour in India
- (b) natural and unchangeable gender divisions
- (c) income generating activities done by women in rural India
- (d) the ability of men to contribute equally to domestic work as women

Note: The following question is for Visually Impaired Candidates only in lieu of Q. No. 17

In a cartoon created by Neelabh Banerjee, the renowned Indian cartoonist, illustrator, and comics artist, a woman is depicted in a rural setting, carrying water pots on her head and a bundle of sticks in her hands. She is also holding her child's hand. Meanwhile, a man, presumably her husband, is seen lying on a cot. The husband is heard saying, "Oh, she? She doesn't work. She's just a housewife."

What is the cartoon trying to depict?

- (a) the sexual division of labour in India
- (b) natural and unchangeable gender divisions
- (c) income generating activities done by women in rural India
- (d) the ability of men to contribute equally to domestic work as women

18	The table given below highlights the percentage of workers in the three sectors of the economy in India. The data for the year 2023 has actual figures while the data for 2040 is hypothetical based on the published figures of the year 2023.	1
----	---	---



Any of the three hypothetical scenarios could be possible in the year 2040. Study the table carefully and answer the questions that follow.				
Year	Primary	Secondary	Tertiary	
2023 (Source: Statista)	44%	25%	31%	
2040 (Hypothetical Scenario: 1)	20%	45%	35%	
2040 (Hypothetical Scenario: 2)	60%	20%	20%	
2040 (Hypothetical Scenario: 3)	15%	40%	45%	
With all other factors remaining the same, which of the following scenarios would have the biggest impact on India's global leadership in the future? (a) only Hypothetical Scenario 1 (b) only Hypothetical Scenario 2 (c) either Hypothetical Scenario 1 or 2 (d) either Hypothetical Scenario 1 or 3				
19	Based on the information given in the table, which of the following statements is LIKELY to be correct? (a) In scenarios 1 and 2, the secondary sector will need the least workers. (b) In scenario 2, India will become a major services-based economy. (c) The primary sector in scenario 2 will be the highest contributor to the GDP of the country.			1



	(d) In scenarios 1 and 3, maximum employment opportunities will be created in the secondary sector.	
20	<p>In a representative democracy, which of the following best describes the role of elected representatives?</p> <p>(a) They have absolute power and authority to make decisions without consulting the public.</p> <p>(b) They are accountable to the public and make decisions on behalf of their constituents.</p> <p>(c) They act as mere figureheads with no real power or influence in the government.</p> <p>(d) They serve lifetime appointments and cannot be removed from office.</p>	1

Section B - VERY SHORT ANSWER QUESTION (2x4=8)

21	<p>'Consumer Affairs raids Malda markets to check malpractices; Complaints were received that soft drinks were being sold at a higher price...'</p> <p><i>Source (edited): Millennium Post</i></p> <p>(i) Which consumer right was being violated in the above instance of soft drinks being sold at a higher price? (1)</p> <p>(ii) Which consumer right was <u>LIKELY</u> invoked in response to the complaints? (1)</p>	2
22	<p>Shruti performed a web search for 'Teacher' and found that 80% of the images had women, while a search for 'Pilot' mainly showed men. Discuss how these web search results reflect societal perceptions and the sexual division of labour. Explain with an example.</p>	2
23	<p>Examine the possible consequences on the basic rights of party members within political organisations that lack internal democracy.</p> <p>OR</p> <p>In a hypothetical democratic nation with a population that is religiously homogenous, should there still be multiple political parties? Justify your</p>	2



	stance in about 40 words.	
24	Assess the reasons for the concentration of the woollen textile industries in the sub-tropical region in India vs their absence in the southern part of India.	2

Section C - SHORT ANSWER-BASED QUESTIONS (3x5-15)

25	<p>'A drought-induced water shortage can have far-reaching consequences, affecting agricultural productivity, the availability of food resources, industrial activities, and livelihoods, thereby significantly impacting human well-being.'</p> <p>i) What does the above statement represent about the relationship between different resources? (2)</p> <p>ii) How does such a situation represents lack of resource planning? (1)</p>	3
26	<p>Discuss the MOST LIKELY impact if India operated without a federal system.</p> <p>Build the answer around these points:</p> <ul style="list-style-type: none">- regional autonomy- effectiveness in governance- decision-making process	3
27	<p>Read the statements given below regarding Indian Railways.</p> <p>Statement 1 (S1): Indian Railways has largely been a Public Sector Enterprise.</p> <p>Statement 2 (S2): Private players are making an entry into the Indian Railway market.</p> <p>Explain what trend do these statements - S1 and S2 - reflect in the railways sector in India.</p>	3



28	Which sector, organised or unorganised, is preferable for employment? Explain.	3
29	Discuss the role of newspapers in shaping public opinion and the democratisation of information during the modern period.	3

Section D LONG ANSWER-BASED QUESTIONS (5X4=20)

30	<p>Examine the significance and key milestones of the Civil Disobedience Movement that took place in India during the struggle for independence.</p> <p>OR</p> <p>Read the following excerpt about the Right to Protest in India and answer the question that follows.</p> <p>The Constitution of India guarantees the fundamental right to protest, which is derived from the broader rights of freedom of speech and expression, and freedom to assemble peacefully. However, this right is subject to reasonable restrictions in the interest of India's sovereignty. Violent actions during protests are in violation of citizens' fundamental duties, emphasising that the right to protest encompasses only peaceful demonstrations.</p> <p>Source: Legal Service India</p> <p>Examine the elements of Satyagraha employed during the 20th-century Indian freedom struggle in light of their alignment with the Right to Protest granted by the Indian constitution as mentioned in the passage.</p>	5
31	<p>A think tank has been given the task to design an outline to measure how successful has democracy been in any country.</p> <p>Discuss the key indicators that the think tank should consider while designing this outline and explain why these factors are crucial in assessing the outcomes of democracy.</p>	5



	<p>OR</p> <p>Free and fair media is one of the most important outcomes of democracy. Comment.</p>	
32	<p>Describe circumstances that drive individuals to seek loans from informal sources of credit. (5)</p> <p>OR</p> <p>State the potential negative economic implications that would arise in an economy in the absence of the concept of credit.</p>	5
33	<p>Read the information given below regarding Delhi-Dehradun Expressway and answer the question that follows.</p> <p>The Delhi-Dehradun Expressway is all set to open to the public by the end of 2023. It would reduce the travel time between the two cities from 6 to 2 hours. The 210 km long expressway will start from North East Delhi and pass through Baghpat, Shamli, Muzaffarnagar, Saharanpur and Dehradun. The last 20km stretch will pass through the eco-sensitive zone of Raja Ji National Park where Asia's longest elevated wildlife corridor of six lanes and 12 km will be constructed that includes the 340 m DatKaali tunnel. The 340-meter-long tunnel near DatKaali temple, Dehradun will help reduce the impact on wildlife and multiple animal passes have been provided in the Ganeshpur-Dehradun section for avoiding animal-vehicle collisions.</p> <p><i>Source (edited): Livemint</i></p> <p>Analyse the development of the Delhi-Dehradun Expressway in terms of its impact - negative and/or positive - on economic growth, the environment and the goal of sustainable development. (5)</p> <p>OR</p>	5



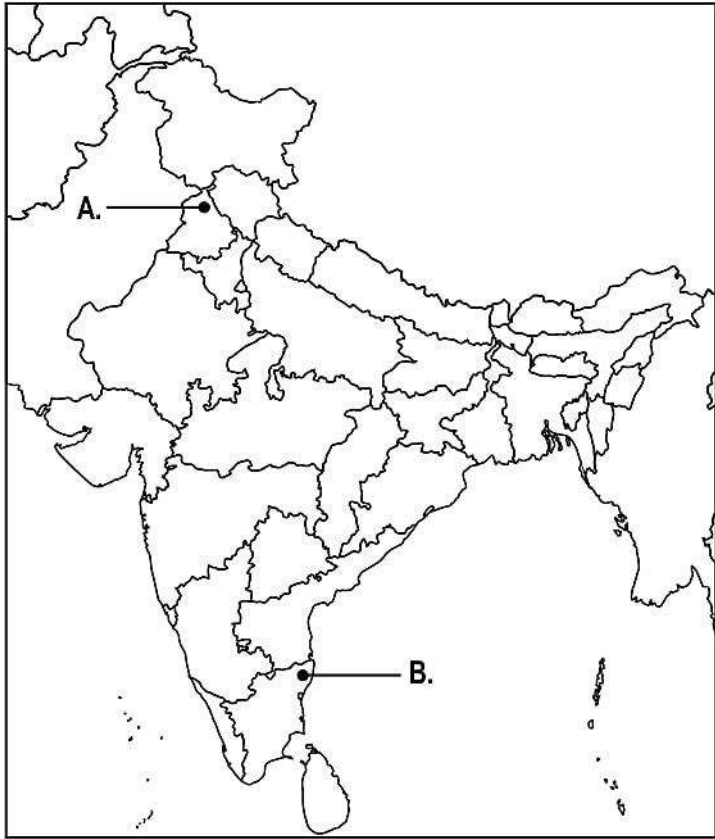
	<p>As per Britannica Dictionary, when the world is seen as a community in which people are connected by computers, television, etc., and all depend on one another, the world becomes a '<i>global village</i>'.</p> <p>Accordingly, they elaborate on the role of air transport in making the world a '<i>global village</i>'.</p>	
--	---	--

Section E CASE-BASED QUESTIONS (4X3=12)

34	<p>Read the information about climate-smart agriculture and answer the question that follows.</p> <p>Climate-smart agriculture (CSA) is an approach that helps guide actions to transform agri-food systems towards green and climate-resilient practices. CSA supports reaching internationally-agreed goals such as the Sustainable Development Goals and the Paris Agreement on climate change. CSA supports the Food and Agriculture Organisation Strategic Framework 2022-2031 based on the Four Betters: better production, better nutrition, a better environment and a better life for all, leaving no one behind.</p> <p><i>Source (edited): Food and Agriculture Organisation</i></p> <p>(i) A CSA expert suggested increased production and consumption of millets in India. Justify their stance. (1) (ii) What is the necessity to think of CSA in India? (1) (iii) Suggest two methods through which India can shift towards CSA. (2)</p>	4
35	<p>Read the passage given below and answer the questions followed:</p> <p>Population trends and dynamics can have an enormous effect on prospects for poverty reduction and sustainable development. Poverty is influenced by – and influences – population dynamics, including population growth, age structure, and rural-urban distribution. All of this has a critical impact on a country's development prospects and prospects for raising living standards for the poor. Investments in better health, including reproductive health, are essential for individual security and for reducing mortality and morbidity (the condition of suffering from a</p>	

	<p>disease or medical condition), which in turn improve a country's productivity and development prospects. <i>Source: UNFPA</i></p> <p>(i) How does investing in improved healthcare infrastructure contribute to the reduction of preventable diseases and chronic conditions? [1] (ii) Explain the relationship between population trends and poverty reduction. [1] (iii) '<i>Poverty is influenced by – and influences – population dynamics, including population growth, age structure, and rural-urban distribution.</i>' Analyse the statement and highlight the mutual relationship between poverty and population. [2]</p>	
36	<p>Read the following lines from Gandhiji's addressal at the A.I.C.C. (All India Congress Committee) in Bombay on 8-8-42 outlining his plan of action, in Hindustani, and answer the questions that follow: "You may take it from me that I am not going to strike a bargain with the Viceroy for ministries and the like. I am not going to be satisfied with anything short of complete freedom. Maybe, he will propose the abolition of the salt tax, the drink evil, etc. But I will say, "Nothing less than freedom." Here is a mantra, a short one, that I give you. You may imprint it on your hearts and let every breath of yours give expression to it. The mantra is: 'Do or Die'. We shall either free India or die in the attempt; we shall not live to see the perpetuation of our slavery. Every true Congressman or woman will join the struggle with an inflexible determination not to remain alive to see the country in bondage and slavery. Let that be your pledge. Keep jails out of your consideration." <i>Source: Smithsonian Magazine</i></p> <p>(i) Explain any one key impact that Gandhiji's rejection of "striking a bargain with the Viceroy for ministries and the like" had on the people participating in the freedom struggle. (1) (ii) How did this mantra differ from earlier strategies employed in the struggle for independence? (1) (iii) Discuss the economic context and political climate that led to the adoption of the 'Do or Die' mantra. (2)</p>	

Section F MAP SKILL-BASED QUESTION (2+3=5)

<p>37</p>	<p>(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.</p> <p>i. The place where the Jallianwala Bagh massacre took place ii. The 1927 Indian National Congress session was held at this place</p>  <p>37 b. On the same map of India, locate and label any three of the following with suitable symbols.</p> <ul style="list-style-type: none"> i) a dam built on the river Sutlej ii) a software technology park in Northern India iii) southernmost port on the east coast of India iv) a nuclear power plant in the state of Maharashtra <p><u>Note: The following question is for Visually Impaired Candidates only in lieu of Question 37 part (a) and part (b).</u></p> <p>(a)</p> <p>i. Name the place where the Jallianwala Bagh massacre took place.</p>	<p>4</p>
-----------	--	----------



	<p>ii. Name the place where the Indian National Congress session was held in 1927.</p> <p>(b)</p> <p><u>The following question is for Visually Impaired Candidates only in lieu of Q. No. 37 (b)</u></p> <p>Answer any three of the following.</p> <p>i) Name the dam built on the river Sutlej.</p> <p>ii) Name the place in northern India where an important software technology park is present.</p> <p>iii) Name the southernmost port on the east coast of India.</p> <p>iv) Name the nuclear power plant present in the state of Maharashtra.</p>	
--	---	--

Kendriya Vidyalaya AFS Kumbhirgram

Autumn Break Holiday Homework

Class 7th

Subject: Social Science

Que.1. How is tsunami earth pandemonium? Explain giving references to tsunami that occurred on 26 December 2004.

Que.2. Make a chart and explain the difference between grassland and the desert. Give the names of some grassland in East Africa, Brazil, North America, South America, Australia.

Que.3. Describe the most important features of the culture of your region for focussing on building performing art and painting.

Que.4. Write brief notes of the following:

- Kathakali
- Kuchipudi
- Bharatanatyam.

Note: Complete your Notebook

Kendriya Vidyalaya AFS Kumbhirgram

Autumn Break Holiday Homework

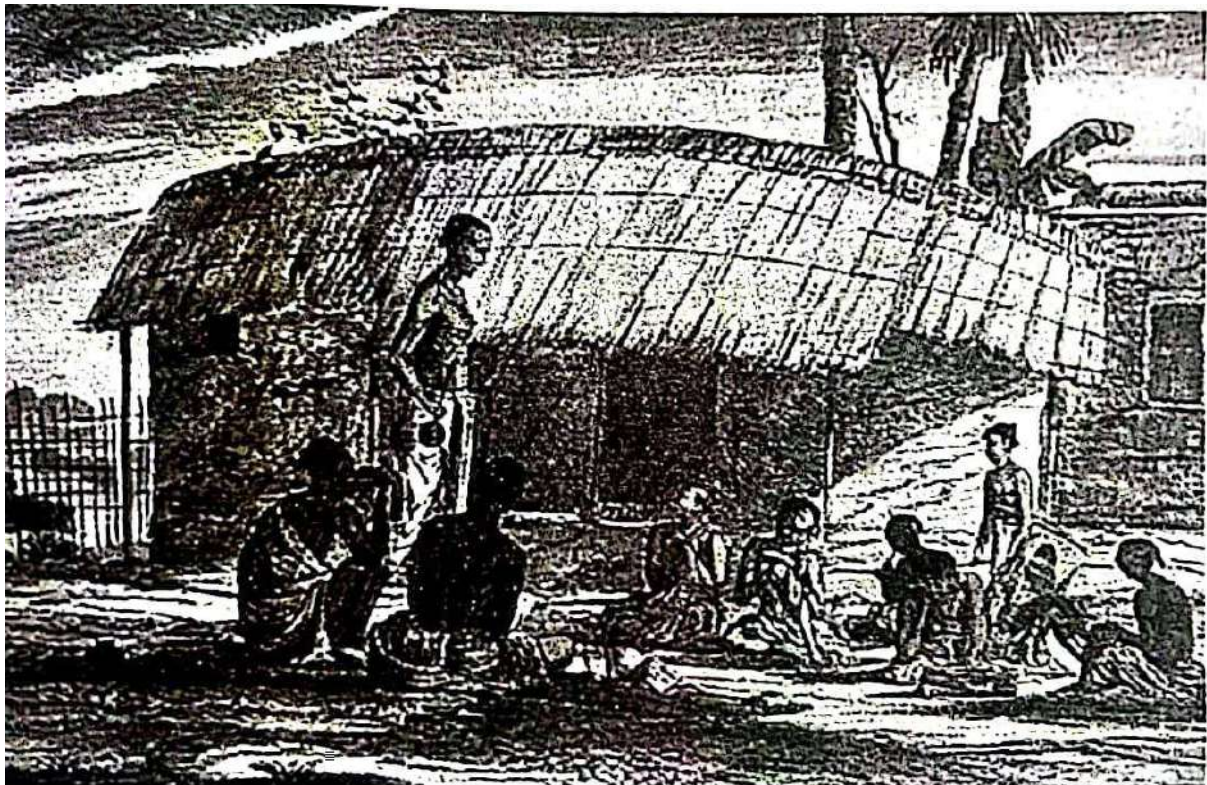
Class 8th

Subject: Social Science

Que.1. Write a short note on the involvement of various women reformer in upliftment of women.

Que.2. Write about the contribution of Raja Ram Mohan Roy for upliftment of woman.

Que.3. Which system of education is shown in the given picture? Write a short note on this system. How was this system affected by the new rules?



Que. 4. Make a chart on industry.

Note: Complete your Notebook

SAMPLE QUESTION PAPER
SOCIAL SCIENCE (CODE 087)
CLASS X – SESSION 2022-23

Time Allowed: 3 Hours

Maximum Marks: 80

General Instructions :

- i. *Question paper comprises Six 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.*
- vi. ***Section-E** - Questions no from 34 to 36 are case based questions with three sub questions and are of 4 marks each*
- vii. ***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).*
- 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
MCQs (1X20=20)

- 1 What helped in the colonisation of Asian and African countries? Identify the correct statement from the following options. 1**
 - A. Intergovernmental policies for the expansion of trade
 - B. Governmental invite to the mother countries for expansion
 - C. Technology, investments and improvement in transport
 - D. Capitalists of these regions wanted trade with colonial powers
- 2 Which of the following newspaper was started by Bal Gangadhar Tilak? 1**
 - A. Hindu
 - B. Kesari
 - C. Sudhakar
 - D. Pratap

- 3 Look at the picture given below. Identify the name of the painter of this painting from the following options. 1



- A. Abindra Nath Tagore
- B. Rabindra Nath Tagore
- C. Raja Ravi Verma
- D. Samant Das Gupta

Note : The following question is for Visually Impaired Candidates only in lieu of Q. No. 3

Who among the following was the author of the book 'Gita Govind'?

- A. Tulsidas
- B. Surdas
- C. Jayadev
- D. Raidas

- 4 Arrange the following in chronological order: 1

- I. Print culture created the conditions for the French Revolution
- II. Martin Luther's writings led to beginning of the Protestant Reformation
- III. Menocchio reinterpreted the message of the Bible
- IV. Johann Gutenberg invented Printing press

OPTIONS:

- A. III, II, I & IV
- B. I, II, III & IV
- C. IV, III, II & I
- D. IV, II, III & I

- 5 Identify the crop with the help of the following information 1

- ❖ It is a crop which is used both as food and fodder.
- ❖ It is a kharif crop which requires temperature between 21°C to 27°C.
- ❖ It grows well in old alluvial soil.
- ❖ Use of modern inputs have contributed to the increasing production of this crop.

Options:

- A. Wheat
- B. Maize
- C. Rice
- D. Sugarcane

- 6 Which of the following description of forest is NOT correct? 1
- A. Reserved Forest -Reservation of more than half of forests
 - B. Protected Forest- Reservation of 1/3 of the forests
 - C. Unclassed Forest-Reservation of forest under govt. and private individuals
 - D. Permanent Forest-Reserved and unclassified forest for the production of timber

- 7 Match the following : 1

RESOURCES	EXAMPLES
a. Renewable Resources:	I. Forests and wildlife
b. Non -Renewable Resources:	II. The oceanic resources
c. National Resources:	III. Roads, canals and railway
d. International Resources:	IV. Minerals and fossil fuels

OPTIONS

- A. a-I, b-IV, c-III, d-II
 - B. a-II, b-I, c-IV, d-III
 - C. a-IV, b-I, c-IV, d-II
 - D. a-I, b-IV, c-II, d-III
- 8 Consider the following statements regarding power sharing arrangements in Belgium and identify the incorrect one from the following: 1
- A. Equal number of members from Dutch and French community in the central government
 - B. Separate government for Brussels with equal representation of communities
 - C. The state government to be subordinate to the central government
 - D. Community government elected by people belonging to one language community
- 9 Which one of the following subjects comes under the legislation of Centre and State in India? 1
- A. Education
 - B. Forests
 - C. Banking
 - D. Trade
- 10 Which of the following statement is true regarding Feminist Movements? 1
- A. A group which favours giving more power to working women at rural and urban level.
 - B. A movement that believes in giving exclusive rights to female in urban areas.
 - C. Radical women's movements aimed at equality in personal and family life as well.
 - D. It is the practice of placing a feminine and masculine point of view in decision making.

11 Which one among the following pairs is correctly matched?

1

LIST I	LIST II
A. Bharatiya Janata Party	National Democratic Alliance
B. Congress Party	Left front
C. Communist Party of India	Regional Party
D. Mizo National Front	United Progressive Alliance

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 is an accountable, responsive and legitimate government

Reason (R): Democracies have regular, free and fair elections and decision-making is based on norms and procedures

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not the correct explanation of A.
- C. A is true but R is false.
- D. A is false but R is true.

13 Which one of the following religions was protected and fostered by Sri Lankans in their constitution? 1

- A. Christianity
- B. Hinduism
- C. Buddhism
- D. Islam

14 Read the given data and find out children of which state has attained maximum elementary school education? 1

States	Per Capita Income For 2018–19 (in Rs)	Infant Mortality Rate per 1,000 live births (2018)	Literacy Rate % 2017–18	Net Attendance Ratio (per 100 persons) secondary stage (age 14 and 15 years) 2017–18
HARYANA	2,36,147	30	82	61
KERALA	2,04,105	7	94	83
BIHAR	40,982	32	62	43

Sources: Economic Survey 2020–21, P.A 157, National Sample Survey Organisation (Report No. 585), National statistical office, Government of India.

- A. Haryana
- B. Bihar
- C. Haryana and Kerala both
- D. Kerala

15. Read the following data and select the appropriate option from the following.

1

Educational Achievement of Rural Population of Uttar Pradesh		
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%

How much percentage of girls are not attending school?

- A. 81%
- B. 61%
- C. 69%
- D. 18%

16. Find the odd one out from the following options:

1

- A. Tourist Guide, Barber, Tailor, and Potter
- B. Teacher, Doctor, Vegetable Vendor and Lawyer
- C. Postman, Cobbler, Soldier and Police Constable
- D. Indian Railways, Jet Airways, Doordarshan and Metro

17. Fill in the blank:

1

SECTOR	CRITERIA USED
Primary, Secondary & Tertiary	Nature of economic activity
Organized & Unorganized	?

OPTIONS:

- A. Nature of Employment activities
- B. Nature of Social activities
- C. Nature of Production activities
- D. Nature of Political activities

18. Read the information given below and select the correct option

1

Rohan has taken a loan of Rs.5 lakhs from the bank to purchase a house on 12% rate of interest. He has to submit papers of new house and salary record to the bank. What is this process called as?

- A. Interest Rate
- B. Collateral
- C. Principal Amount
- D. Instalments

19. Which of the following international agencies allow free trade and work on mutual trade between countries? 1
- A. WTO
 - B. IMF
 - C. UPU
 - D. FAO

20. Identify the correct statements about globalization. 1

- I. Removal of barriers by the government
- II. Foreign companies are allowed to set up factories
- III. Has enabled all companies to increase their investments
- IV. Has lessened foreign investment and foreign trade

OPTIONS:

- A. I & II
- B. II & III
- C. I & III
- D. II & IV

SECTION B

VERY SHORT ANSWER QUESTIONS (2X4=8)

21. Analyse any two factors that were responsible for the Great Depression in America during 1929. 2
22. Mention the provisions that constitute India into a secular country. 2
23. Suggest any two ways to conserve energy resources in India. 2

OR

Suggest any two ways to improve the usage of Solar energy.

24. In what ways Government can increase employment in the rural sector? 2

SECTION C

SHORT ANSWER BASED QUESTIONS (3X5=15)

25. How was the social and political situation of India affected by the First World War? Explain. 3

OR

How did the Indian merchants and industrialists relate themselves to the Civil Disobedience Movement? Explain.

26. Examine the factors that influence the distribution pattern of the railway network in India. 3
27. In what ways Multi National Corporation (MNC) different from other companies? Explain with an example. 3
28. Differentiate between democratic and non-democratic government. 3
29. 'Tertiary sector is different from other sectors.' Justify the statement with suitable arguments. 3

SECTION D
LONG ANSWER BASED QUESTIONS (5X4=20)

- 30** Highlight the various measures and practices that French revolutionaries introduced to create a sense of collective identity amongst the French people. **5**

OR

Highlight the role of Otto Von Bismarck in making of Germany. **5**

- 31.** ‘Manufacturing sector is considered as the backbone of general and economic development.’ Examine the statement in the context of India. **5**

OR

Examine the multi-pronged aspects of Information Technology and Electronics Industry. **5**

- 32.** Describe the role of political parties in India. **5**

OR

Describe the necessity or utility of political parties in democratic countries. **5**

- 33.** Explain the role of Self-Help Groups (SHGs) in the rural society. **5**

OR

Explain the significance of The Reserve Bank of India in the Indian economy. **5**

SECTION-E
CASE BASED QUESTIONS (4x3=12)

- 34 Read the source given below and answer the question that follows:** **4**

Will Thorne is one of those who went in search of seasonal work, loading bricks and doing odd jobs. He describes how job-seekers walked to London in search of work:

‘I had always wanted to go to London, and my desire ... was stimulated by letters from an old workmate ... who was now working at the Old Kent Road Gas Works ... I finally decided to go ... in November, 1881. With two friends I started out to walk the journey, filled with the hope that we would be able to obtain employment, when we get there, with the kind assistance of my friend ... we had little money when we started, not enough to pay for our food and lodgings each night until we arrived in London. Some days we walked as much as twenty miles, and other days less. Our money was gone at the end of the third day ... For two nights we slept out – once under a haystack, and once in an old farm shed ... On arrival in London we tried to find ... my friend ... but ... were unsuccessful. Our money was gone, so there was nothing for us to do but to walk around until late at night, and then try to find some place to sleep. We found an old building and slept in it that night. The next day, Sunday, late in the afternoon, we got to the Old Kent Gas Works, and applied for work. To my great surprise, the man we had been looking for was working at the time. He spoke to the foreman and I was given a job.’

Quoted in Raphael Samuel, ‘Comers and Goers’, in H.J. Dyos and Michael Wolff, eds, The Victorian City: Images and Realities, 1973.

34.1 Analyse the major factor which led London become an attractive place for the job seekers. **1**

34.2 Analyse the reason for the appointment of Will Thorne by the Old Kent Gas works. **1**

34.3 Examine the preference of hand labour over machines by the industrialists of the Victorian Britain. 2

35. Read the given extract and answer following questions 4

Narmada Bachao Andolan or Save Narmada Movement is a Non-Governmental Organisation (NGO) that mobilized tribal people, farmers, environmentalists and human rights activists against the Sardar Sarovar Dam being built across the Narmada river in Gujarat. It originally focused on the environmental issues related to trees that would be submerged under the dam water. Recently it has re-focused the aim to enable poor citizens, especially the oustees (displaced people) to get full rehabilitation facilities from the government.

People felt that their suffering would not be in vain... accepted the trauma of displacement believing in the promise of irrigated fields and plentiful harvests. So, often the survivors of Rihand told us that they accepted their sufferings as sacrifice for the sake of their nation. But now, after thirty bitter years of being adrift, their livelihood having even being more precarious, they keep asking: "Are we the only ones chosen to make sacrifices for the nation?"

Source: S. Sharma, quoted in In the Belly of the River. Tribal conflicts over development in Narmada valley. A. Baviskar. 1995.

- 35.1 With what objective 'Sardar Sarovar Dam' was built? 1
35.2 Analyse the reason of protest by the tribal people. 1
35.3 Highlight the issues on which 'Save Narmada Movement' worked on. 2

36. Read the given extract and answer following questions. 4

Power sharing arrangements can also be seen in the way political parties, pressure groups and movements control or influence those in power. In a democracy, the citizens must have freedom to choose among various contenders for power. In contemporary democracies, this takes the form of competition among different parties. Such competition ensures that power does not remain in one hand. In the long run, power is shared among different political parties that represent different ideologies and social groups. Sometimes this kind of sharing can be direct, when two or more parties form an alliance to contest elections. If their alliance is elected, they form a coalition government and thus share power. In a democracy, we find interest groups such as those of traders, businessmen, industrialists, farmers and industrial workers. They also will have share in governmental power, either through participation in governmental committees or bringing influence on the decision-making process.

- 36.1 'Power sharing is an essential component of democracy.' Give one example to prove the statement. 1
36.2 How is alliance building an example of power sharing? 1
36.3 How Political parties, pressure groups and movements help in controlling or influencing those who are in power? 2

SECTION-F

MAP SKILL BASED QUESTION (2+3=5)

- 37** 37a. Two places A and B have been marked on the given outline map of India. 2

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

- A. Indian National Congress session at this place in 1920
- B. The place where Mahatma Gandhi broke Salt Law.

37b. On the same outline map of India locate and label any **THREE** of the following with suitable Symbols.

3

- a. Hirakud Dam
- b. Tarapur Atomic Power Station
- c. Noida Software Technology Park
- d. Kochi Port

Note: The following questions are for Visually Impaired Candidates only in lieu of Q. No.37. Attempt any FIVE questions. 5

37.1 Name the Place where the session of Indian National Congress was held in September 1920.

1

37.2 Name the place where Mahatma Gandhi broke Salt Law.

1

37.3 Name the State where Hirakud Dam is located.

1

37.4 Name the State where Tarapur nuclear plant is located.

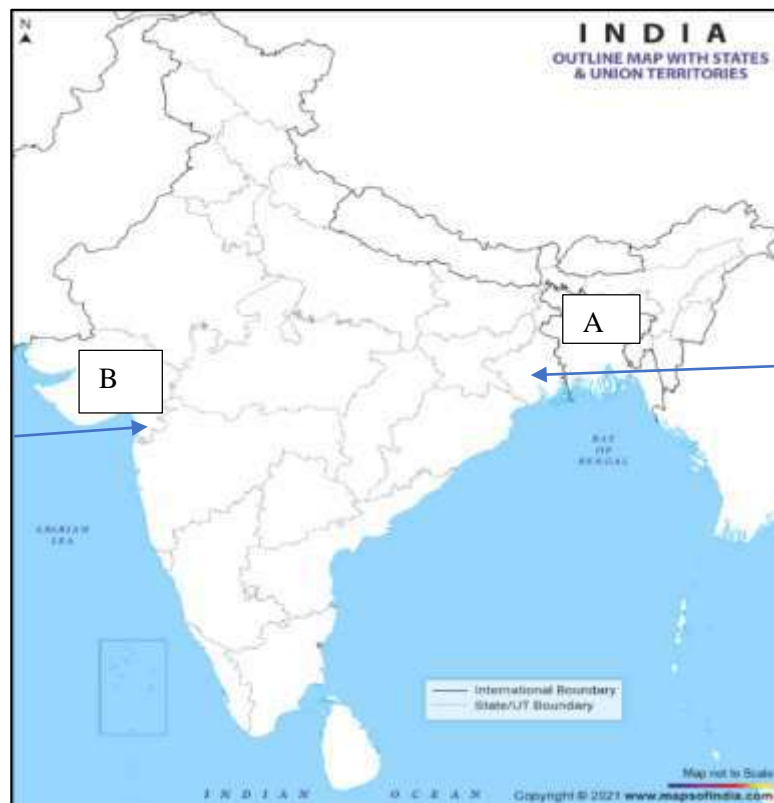
1

37.5 Name the State where Noida Software Technology Park is located.

1

37.6 Name the State where Kochi 'Sea Port' is located.

1



केन्द्रीय विद्यालय वायु सेना स्थल कुम्भीरग्राम

शरदवकाशकालिन गृहकार्य

कक्षा - ७

विषय - हिंदी

प्रश्न १: प्रधानाचार्य को दो दिन के अवकाश के लिए प्रार्थना पत्र लिखिए ।

प्रश्न २: 'अनुशासन' पर निबंध एक पेज लिखिए ।

प्रश्न ३: "खानपान की बदलती तस्वीर" पाठ का सार अपने शब्दों में लिखिए ।

प्रश्न ४: तुम्हें खाने में क्या-क्या पसंद है उनके नाम लिखिए ।

विषय अध्यापक- ममता

केन्द्रीय विद्यालय वायु सेना स्थल कुम्भीरग्राम

शरदवकाशकालिन गृहकार्य

कक्षा - ८

विषय - हिंदी

प्रश्न १: विद्यार्थी जीवन पर निबंध लिखिए ।

प्रश्न २: अपने मित्र को जन्मदिन की बधाई एवं शुभकामनाएं देते हुए एक पत्र लिखिए ।

प्रश्न ३: "जहां पहिया है" पाठ का प्रश्न-उत्तर याद कीजिए ।

प्रश्न ४: 'जल' पर अनुच्छेद लिखिए ।

विषय अध्यापक- ममता

केन्द्रीय विद्यालय वायु सेना स्थल कुम्भीरग्राम

शरदवकाशकालिन गृहकार्य

कक्षा - ६

विषय - हिंदी

प्रश्न १: पाँच पेज सुलेख अपने पाठ्य पुस्तक से देखकर लिखिए ।

प्रश्न २: "झांसी की रानी" की जीवनी अपने शब्दों में लिखिए ।

प्रश्न ३: प्रधानाचार्य को चार दिन के अवकाश के लिए प्रार्थना पत्र लिखिए ।

प्रश्न ४: परियोजना कार्य- पर्यावरण का चित्र बनाओ ।

विषय अध्यापक- ममता

Series : ΩQAΩA

SET-4

प्रश्न-पत्र कोड नं. **104**
Question Paper Code No.

रोल नं.

--	--	--	--	--	--	--	--

Roll No.

परीक्षार्थी कोड को उत्तर-पुस्तिका के मुख-पृष्ठ पर अवश्य लिखें।
Candidates must write the Code on the title page of the answer-book.

- कृपया जाँच कर लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 8 हैं।
- प्रश्न-पत्र में दाहिने हाथ की ओर दिए गए कोड नम्बर को छात्र उत्तर-पुस्तिका के मुख-पृष्ठ पर लिखें।
- कृपया जाँच कर लें कि इस प्रश्न-पत्र में 21 प्रश्न हैं।
- कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, उत्तर-पुस्तिका में प्रश्न का क्रमांक अवश्य लिखें।
- इस प्रश्न-पत्र को पढ़ने के लिए 15 मिनट का समय दिया गया है। प्रश्न-पत्र का वितरण पूर्वाह्न में 10.15 बजे किया जाएगा। 10.15 बजे से 10.30 बजे तक छात्र केवल प्रश्न-पत्र को पढ़ेंगे और इस अवधि के दौरान वे उत्तर-पुस्तिका पर कोई उत्तर नहीं लिखेंगे।
- Please check that this question paper contains 8 printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains 21 questions.
- **Please write down the Serial Number of the question in the answer-book before attempting it.**
- 15 minutes time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.



ARTIFICIAL INTELLIGENCE



निर्धारित समय : 1 घण्टे

Time allowed : 1 hour

अधिकतम अंक : 25

Maximum Marks : 25



General Instructions :

- (i) *Please read the instructions carefully.*
- (ii) *This question paper is divided into **03 Sections** viz., **Section A; Section B and Section C.***
- (iii) ***Section A** is of **05** marks and has **06** questions on Employability skills.*
 - (a) *Question numbers **01** to **04** are **one** mark questions. Attempt any **three** questions.*
 - (b) *Questions numbers **05** and **06** are **two** marks questions. Attempt any **one** question.*
- (iv) ***Section B** is of **12** marks and has **12** questions on Subject specific skills.*
 - (a) *Question numbers **07** to **12** are **one** mark questions. Attempt any **four** questions.*
 - (b) *Question numbers **13** to **18** are **two** marks questions. Attempt any **four** questions.*
- (v) ***Section C** is of **08** marks and has **03** Competency-based questions.*

*Question numbers **19** to **21** are **four** marks questions. Attempt any **two** questions.*
- (vi) *Do as per the instructions given in the respective sections.*
- (vii) *Marks allotted are mentioned against each section/question.*

Section – A

(3 + 2 = 5 marks)

Answer any 3 questions out of given 4 questions.

1 × 3 = 3

1. What is wage employment ?

1





2. How food is one of the major problems related to sustainable development ?
Discuss briefly. 1

3. “To get success, every business idea needs to be unique or special.”
Is the above statement a myth or fact ? 1

4. What is the major purpose of the Sustainable Development Goals ? 1

Answer any 1 question out of the given 2 questions. $2 \times 1 = 2$

5. Write any four common functions of an entrepreneur. 2

6. Sustainable development can actually happen only when each one of us works towards it. Mention any four ways which we can do at our end to reduce inequality. 2

Section – B $(4 + 8 = 12 \text{ marks})$

Answer any 4 questions out of the given 6 questions. $1 \times 4 = 4$

7. What is NLP ? 1

8. Mention any two commonly used applications of NLP. 1





9. Name any two currently popular virtual assistants. 1
10. Name the process of dividing whole corpus into sentences. 1
11. With reference to evaluation process of understanding the reliability of any AI model, define the term True Positive. 1
12. What is F1 score ? 1

Answer any 4 questions out of the given 6 questions. $2 \times 4 = 8$

13. Differentiate between Script-bot and Smart-bot. 2
14. What is the purpose of Evaluation stage of AI project cycle ? Discuss briefly. 2
15. What is Tokenization ? Count how many tokens are present in the following statement : 2

I find that the harder I work, the more luck I seem to have.



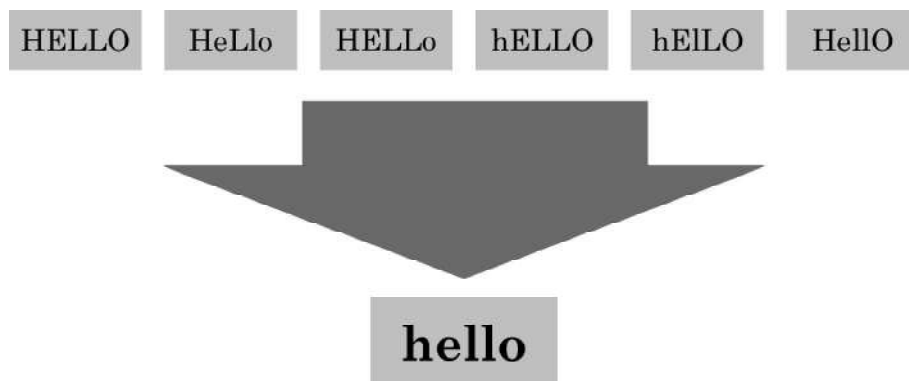


16. Kaira, a beginner in the field of NLP is trying to understand the process of Stemming. Help her in filling up the following table by suggesting appropriate affixes and stem of the words mentioned there : 2

S. No.	Word	Affixes	Stem
i.	Tries		
ii.	Learning		

17. With reference to evaluation stage of AI project cycle, explain the term Accuracy. Also give the formula to calculate it. 2

18. Explain the following picture which depicts one of the processes on NLP. Also mention the purpose which will be achieved by this process. 2





Section – C

(4 × 2 = 8 marks)

(COMPETENCY-BASED QUESTIONS)

Answer any 2 questions out of the given 3 questions.

19. Consider the text of following documents : 4

Document 1 : Sahil likes to play cricket

Document 2 : Sajal likes cricket too

Document 3 : Sajal also likes to play basketball

Apply all the four steps of Bag of words model of NLP on the above given documents and generate the output.

20. With reference to NLP, explain the following terms in detail with the help of suitable example : 4

- **Term frequency**
- **Inverse Document Frequency**





21. Traffic Jams have become a common part of our lives now-a-days. Living in an urban area means you have to face traffic each and every time you get out on the road. Mostly, school students opt for buses to go to school. Many times the bus gets late due to such jams and students are not able to reach their school on time. Thus, an AI model is created to predict explicitly if there would be a traffic jam on their way to school or not. The confusion matrix for the same is

4

The Confusion Matrix	Actual : 1	Actual : 0
Predicted : 1	50	50
Predicted : 0	0	0

Explain the process of calculating F1 score for the given problem.





*





Series ψ YZXW



Set-4

प्रश्न-पत्र कोड
Q.P. Code

104

रोल नं.

Roll No.

परीक्षार्थी प्रश्न-पत्र कोड को उत्तर-पुस्तिका के मुख-पृष्ठ पर अवश्य लिखें।

Candidates must write the Q.P. Code on the title page of the answer-book.

ARTIFICIAL INTELLIGENCE

निर्धारित समय : 2 घण्टे

Time allowed : 2 hours

अधिकतम अंक : 50

Maximum Marks : 50

- कृपया जाँच कर लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 7 हैं।
- प्रश्न-पत्र में दाहिने हाथ की ओर दिए गए प्रश्न-पत्र कोड को परीक्षार्थी उत्तर-पुस्तिका के मुख-पृष्ठ पर लिखें।
- कृपया जाँच कर लें कि इस प्रश्न-पत्र में 21 प्रश्न हैं।
- कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, उत्तर-पुस्तिका में प्रश्न का क्रमांक अवश्य लिखें।
- इस प्रश्न-पत्र को पढ़ने के लिए 15 मिनट का समय दिया गया है। प्रश्न-पत्र का वितरण पूर्वाह्न में 10.15 बजे किया जाएगा। 10.15 बजे से 10.30 बजे तक परीक्षार्थी केवल प्रश्न-पत्र को पढ़ेंगे और इस अवधि के दौरान वे उत्तर-पुस्तिका पर कोई उत्तर नहीं लिखेंगे।
- Please check that this question paper contains 7 printed pages.
- Q.P. Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains 21 questions.
- Please write down the serial number of the question in the answer-book before attempting it.
- 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the candidates will read the question paper only and will not write any answer on the answer-book during this period.



104

137

Page 1 of 8

P.T.O.



General Instructions :

- (i) Please read the instructions carefully.
- (ii) This question paper consists of 21 questions in two sections : Section A & Section B.
- (iii) Section A has objective type questions whereas Section B contains subjective type questions.
- (iv) Out of the given **(5 + 16 ⇒ 21)** questions, a candidate has to answer **(5 + 10 ⇒ 15)** questions in the allotted (maximum) time of 2 hours.
- (v) All questions of a particular section must be attempted in the correct order.
- (vi) **Section A – Objective type questions (24 marks) :**
 - (a) This section has 05 questions.
 - (b) Marks allotted are mentioned against each question/part.
 - (c) There is no negative marking.
 - (d) Do as per the instructions given.
- (vii) **Section B – Subjective type questions (26 marks) :**
 - (a) This section has 16 questions.
 - (b) A candidate has to do 10 questions.
 - (c) Do as per the instructions given.
 - (d) Marks allotted are mentioned against each question/part.

Section – A
Objective Type Questions

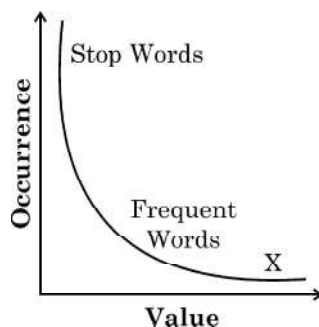
1. Answer any 4 out of given 6 questions. 4 × 1 = 4
- (i) Which of the following is not a task of an entrepreneur ? 1
 - (a) Sharing of wealth
 - (b) Preferably using foreign materials
 - (c) Fulfilling customer needs
 - (d) Helping society
 - (ii) GUI stands for : 1
 - (a) Graphical User Interaction
 - (b) Graphical User Interface
 - (c) Graphical Upper Interface
 - (d) None of these
 - (iii) Which of the following is a function of an entrepreneur ? 1
 - (a) Following the traditional method of business
 - (b) Innovation
 - (c) Keeping all the profit to himself/herself
 - (d) Avoid taking decisions



- (iv) Right clicking on File or Folder opens 1
(a) Main Menu (b) Shortcut Menu
(c) Back Menu (d) Front Menu
- (v) Stress management is vital because it leads to following benefits : 1
(a) Improves mood (b) Boosts immune system
(c) Promotes longevity (d) All of the above
- (vi) Which of the following is an inner urge to do something, achieve their goals without any external pressure / lure for award or appreciation ? 1
(a) Self-awareness (b) Self-motivation
(c) Self-regulation (d) Self-control
2. Answer any **5** out of given **6** questions. **5 × 1 = 5**
- (i) Two popular examples of pocket assistants are _____ and _____. 1
- (ii) This is a fact that all human beings have all nine types of intelligences, but at different levels.
Name any two such intelligences. 1
- (iii) Identify the incorrect statements from the following : 1
(i) AI models can be broadly categorized into four domains.
(ii) Data sciences is one of the domain of AI model.
(iii) Price comparison websites are examples of data science.
(iv) The information extracted through data science can be used to make decision about it.
(a) Only (iv) (b) (iii) and (iv)
(c) Only (i) (d) (ii) and (iii)
- (iv) During Data Acquisition, feeding previous data into the machine is called : 1
(a) Training Data (b) Predicting Data
(c) Testing Data (d) Evaluating Data
- (v) Regression is one of the type of supervised learning model, where data is classified according to labels and data need not to be continuous. (True / False) 1
- (vi) Which of the following is defined as the measure of balance between precision and recall ? 1
(a) Accuracy (b) F1 Score
(c) Reliability (d) Punctuality



3. Answer any **5** out of given **6** questions. **5 × 1 = 5**
- (i) Email filters, spam filters, smart assistants are the examples of : **1**
- (a) Pocket Assistants (b) CV
(c) NLP (d) Evaluation
- (ii) Select the correct features of Smart Bot : **1**
- (a) Smart-bots are flexible and powerful
(b) Coding is required to take this up on board
(c) Smart bots work on bigger databases and other resources directly
(d) All of the above
- (iii) For _____ the whole corpus is divided into sentences. Each sentence is taken as a different data so now the whole corpus gets reduced to sentences. **1**
- (a) Text Regulation (b) Sentence Segmentation
(c) Tokenisation (d) Stemming
- (iv) _____ helps to find the best model that represents our data and how well the chosen model will work in future. **1**
- (v) While evaluating a model's performance, recall parameter considers _____. **1**
- (i) False positive (ii) True positive
(iii) False negative (iv) True negative
- Choose the correct option : **1**
- (a) only (i) (b) (ii) and (iii)
(c) (iii) and (iv) (d) (i) and (iv)
- (vi) With reference to NLP, consider the following plot of occurrence of words versus their value : **1**



In the given graph, X represents :

- (a) Rare / valuable words (b) Punctuation words
(c) Popular words (d) Pronoun



4. Answer any **5** out of given **6** questions. **5 × 1 = 5**
- (i) Which of the following is a feature of document classification ? **1**
 - (a) Helps in classifying the type and genre of a document.
 - (b) Helps in creating a document.
 - (c) Helps to display important information of a corpus.
 - (d) Helps in including the necessary words in the text body.
 - (ii) Two conditions when prediction matches with the reality are true positive and _____. **1**
 - (iii) Which of the following is the correct feature of Neural network ? **1**
 - (a) It can improve the efficiency of two models.
 - (b) It is useful with small dataset.
 - (c) They are modelled on human brains and nervous system.
 - (d) They need human intervention.
 - (iv) With reference to AI domain, expand the term CV. **1**
 - (v) Under _____, one looks at various parameters which affect the problem we wish to solve, as this would make many lives better. **1**
 - (vi) In this learning model, the data set which is fed to the machine is labelled. Name the model. **1**
5. Answer any **5** out of given **6** questions. **5 × 1 = 5**
- (i) _____ is a term used for any word or number or special character occurring in a sentence. (Token / Punctuator) **1**
 - (ii) When the prediction matches the reality, the condition is termed as _____. **1**
 - (iii) Smart Assistants such as Alexa, Siri are the examples of : **1**
 - (a) Natural Language Processing
 - (b) Data Science
 - (c) Machine Learning
 - (d) Computer Vision
 - (iv) 4Ws Problem Canvas is a part of : **1**
 - (a) Problem Scoping
 - (b) Data Acquisition
 - (c) Modelling
 - (d) Evaluation
 - (v) It refers to the unsupervised learning algorithm which can cluster the unknown data according to the patterns or trends identified out of it. **1**
 - (a) Regression
 - (b) Classification
 - (c) Clustering
 - (d) Dimensionality reduction



- (vi) Which of the following talks about how true the predictions are by any model ? 1
- (a) Accuracy (b) Reliability
(c) Recall (d) F1 score

Section – B
Subjective Type Questions

Answer any **3** out of given **5** questions on Employability Skills. **3 × 2 = 6**

6. How does mediation help in Managing Stress ? Discuss briefly. 2
7. Give any two key roles performed by an entrepreneur. 2
8. Mention any two benefits of working independently. 2
9. Gurmeet has just bought a new computer for his office. Suggest him any two points which he should keep in mind to prevent his computer from virus infection. 2
10. Define the term agricultural entrepreneurship. How are farmers benefitted from it ? 2

Answer any **4** out of the given **6** questions in **20-30** words each. **4 × 2 = 8**

11. Explain any one example of AI bias. 2
12. What is Dimensionality Reduction ? 2
13. Define Chatbot. What are its types ? 2
14. Define Confusion Matrix. 2
15. Face lock feature of a smartphone is an example of computer vision. Briefly discuss this feature. 2
16. With reference to data processing, expand the term TFIDF. Also give any two applications of TFIDF. 2



Answer any 3 out of the given 5 questions in 50-80 words each. $3 \times 4 = 12$

17. Ms. Sooji is a beginner in the field of Artificial Intelligence. She got confused among the core terms like Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL). Many a times, these terms are used interchangeably but are they the same ? Justify your answer. Help her in understanding these terms by drawing a well labelled diagram to depict the interconnection of these three fields. 4
18. What is the significance of AI project cycle ? Also explain in detail about how Data Acquisition is different from data exploration. 4
19. Create a document vector table from the following documents by implementing all the four steps of Bag of words model. Also depict the outcome of each step.
Document 1 : Sameera and Sanya are classmates.
Document 2 : Sameera likes dancing but Sanya loves to study mathematics. 4
20. Will it be valid to say that not all the devices which are termed as “smart” are AI-enabled ? Justify this statement. Explain any two examples from the daily life which are commonly misunderstood as AI. 4
21. Recently the country was shaken up by a series of earthquakes which has done a huge damage to the people as well as the infrastructure. To address this issue, an AI model has been created which can predict if there is a chance of earthquake or not. The confusion matrix for the same is : 4

Confusion Matrix		Reality	
		Yes	No
Predicted	Yes	50	05
	No	25	20

- (i) How many total cases are True Negative in the above scenario ?
(ii) Calculate precision, recall and F1 score.
-

