

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

PERIODIC TEST-II SESSION – 2024-2025

CLASS – X
SUBJECT – ARTIFICIAL INTELLIGENCE (417)

MAX. MARKS – 50
TIME – 2 HOURS

General Instructions:

1. Please read the instructions carefully.
 2. This Question Paper consists of 21 questions in two sections: Section A & Section B.
 3. Section A has Objective type questions whereas Section B contains Subjective type questions.
 4. 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.
 5. All questions of a particular section must be attempted in the correct order.
 6. SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
 7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
-

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.1 Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)

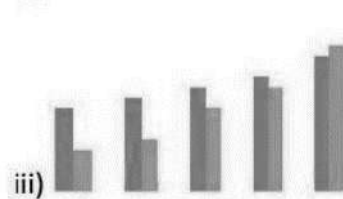
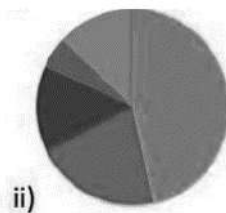
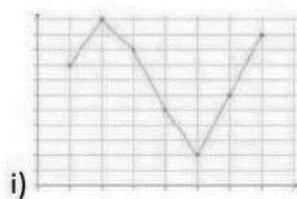
- i. Ashish had put on weight as a result of his poor eating habits and unhealthy lifestyle. He was a big foodie who never worried about his weight. Looking at his increasing weight, people started mentioning it to him. So, one day he decided to change his daily regime and started going on walk, doing yoga and followed a healthy diet. Now he maintains his weight and lives a healthy lifestyle. What type of motivation did Ashish demonstrate?
A) Self-awareness B) Work independently C) Financially independent D) Food management 1
- ii. Statement 1: Self-motivation teaches us self-discipline and hard work to achieve our goals.
Statement 2: Individuals experience increased anxiety and boredom when they motivate themselves.
(A) Both Statement 1 and Statement 2 are correct. 1
(B) Both Statement 1 and Statement 2 are incorrect.
(C) Statement 1 is correct but Statement 2 is incorrect.
(D) Statement 1 is incorrect but Statement 2 is correct.
- iii. Which of these is NOT a common communication barrier? 1
A) Linguistic barrier B) Interpersonal barrier C) Financial barrier D) Physical barrier
- iv. Which of the following is an example of negative feedback? 1
A) You can dance better.
B) Your Dance was good but you can do better.
C) Your Dance skill is not really good. You have to practise more.
D) None of the above
- v. The short cut key to open a new file in notepad is _____. 1
A) ctrl + e B) ctrl + w
C) alt + n D) ctrl + n
- vi. A _____ is a software or firmware that prevents unauthorised access to a network. 1
A) Cookies
B) Firewall
C) Icewall
D) Antivirus

Q. 2 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. Raman is a spiritual guru who has a very good religious and spiritual awareness. Among the following, what kind of intelligence? 1
A) Naturalist intelligence B) Interpersonal intelligence
C) Existential intelligence D) Kinaesthetic intelligence
- ii. Artificial Intelligence (AI) is a discipline that aims to create robots that are intelligent enough to do jobs that are typically performed by humans only. Identify which of the following aspects is still beyond the capabilities of artificial intelligence. 1
(i) Numerical ability (ii) High processing power (iii) Emotional intelligence (iv) Speech recognition
A) (i) and (iii) only B) (ii) and (iii) only C) (i), (ii) and (iii) D) Only (iii)
- iii. A person's ability to regulate, measure and understand numerical symbols abstraction and logic is called _____. 1
A) Mathematical Logical Reasoning B) Musical Intelligence
C) Intrapersonal Intelligence d) Linguistic Intelligence
- iv. The world of Artificial Intelligence depends upon _____. 1
A) Data
B) Smart Phone
C) Smart Car
D) Value
- v. _____ related projects translate digital visual data into descriptions. 1
A) Natural Language Processing B) Computer Vision C) Data Science D) None of the above
- vi. Whenever you download an app and install, it asks you for several permissions to access your phone's data in different ways. So the data which is collected by applications is _____. 1
A) Ethical B) Unethical C) Illegal D) Weak

Q.3 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. Rohit is working on a supervised learning model by taking discrete dataset. Guide him the type of supervised learning model he should opt for. 1
A) Classification B) Regression C) Both of the above D) None of the above
- ii. The unsupervised learning algorithm which can cluster the unknown data according to the patterns or trends identified out of it is known as 1
A) Clustering B) Dimensionality Reduction C) Non-Clustering D) Association
- iii. Under the _____ block, you need to determine the nature of the problem. 1
A) Where B) Why C) What D) Who
- iv. Statement 1: The data with which the machine can be trained is the testing data
Statement 2: The data with which the model is evaluated is the training data 1
A) Statement 1 is correct and Statement 2 is incorrect
B) Statement 2 is correct and Statement 1 is incorrect
C) Both Statement 1 and Statement 2 are correct
D) Both Statement 1 and Statement 2 are incorrect
- v. Match the best choice graph for the data below. 1
1. Chart to show the number of students in a school over past 5 years
2. Chart to show the temperature on each day of the week.
3. Chart to show percentage of each sale of ticket type at a concert.



- A) 1-> i) ; 2-> ii) ; 3-> iii)
C) 1-> iii) ; 2-> i) ; 3-> ii)

- B) 1-> i) ; 2-> iii) ; 3-> ii)
D) 1-> iii) ; 2-> ii) ; 3-> i)

- vi. While designing a surveillance system for the premises where a costly diamond was to be kept for exhibition, we do the following tasks.
 a) Get photographs of all the authorised people.
 b) Get photographs of all the unauthorised people. 1
 c) Get photographs of the premises.
 d) Get photographs of all the visitors.
 Which stage of AI project cycle are we talking about?
 A) Problem Scoping B) Data Exploration C) Modelling D) Data Acquisition
- Q. 4 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. The _____ is the value that appears most often in set of data values. 1
 A) Mean B) median C) mode D) range
- ii. The _____ of a set of data is the middlemost number value in the set. 1
 A) Mean B) median C) mode D) range
- iii. What does CSV stand for? 1
 A) Comma separated values B) Computer spreadsheet values
 C) Centralized storage volumes D) Compressed structured variables
- iv. Which companies use data science to improve user experience through product recommendations? 1
 A) Amazon, Twitter, Google Play, Netflix, LinkedIn, IMDB
 B) Yahoo, Bing, Ask, AOL
 C) All of the above
 D) None of the above
- v. A(n) _____ image is an image in which the only colours are shades of grey. 1
 A) RGB B) Grayscale C) B & W D) grey
- vi. The number of pixels in an image is called _____ of image. 1
 A) Dimension B) Width C) Resolution D) Height
- Q. 5 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. In _____ systems, the AI models are developed using the algorithms having predefined data, rules, patterns and relationships. 1
 A) Learning based
 B) Rule based
 C) Robotics
 D) All of these
- ii. In a class, a teacher has grouped students according to their level of intelligence like Below Average, Average, Above Average and Brilliant to evaluate their academic performance. This is an example of: 1
 A) Regression B) Classification C) Clustering D) Association
- iii. The crucial part of intelligence is 1
 A) Understanding B) Decision Making C) Self-Awareness D) Recognition
- iv. Which of the following is/are some ethical issue(s) around AI? 1
 A) Bias and Fairness B) Accountability C) Cyber Security D) All of these
- v. _____ is an open-source library that includes several hundreds of computer vision algorithms. 1
 A) CV B) Python-CV C) OpenCV D) All of these
- vi. A(n) _____ image is a coloured image that is formed by the three-colour information stored for each pixel of a digital image. 1
 A) RGB B) Grayscale C) B & W D) grey

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

- Q. 6 Describe a situation where you had to explain a technical concept to a non-technical audience. How did you ensure they understood? 2
- Q. 7 Explain any four Cs of effective communication? 2
- Q. 8 Ranjan is a senior manager at an IT company. With his busy schedule and heavy workload, he is experiencing a high level of stress. Recommend four stress management techniques to help him enjoy his work more. 2
- Q. 9 Garima is a Class X student who was recently instructed by her teacher to focus on SMART goals and learned about each component. However, she has since forgotten the full form of SMART, only recalling that “S” stands for Specific. Can you provide her with the complete full form of SMART? 2
- Q. 10 Your school computer lab recently experienced a malware attack that affected several computers. Explain how will you stop and remove the malware from an infected computer. 2

Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)

- Q. 11 You are tasked with creating an AI model to recommend books to students. During the problem scoping phase, what key factors would you consider to define the problem accurately? 2
- Q. 12 Write any four methods to acquire the data for AI systems. 2
- Q. 13 State two differences between Supervised and Unsupervised learning. 2
- Q. 14 Sumit is a social worker associated with environmental movement. Since last 10 years he is trying to focus on all the points of SDG. Suggest him any of the two SDGs according to the UNESCO, which can be used to make the world a better place to live. 2
- Q. 15 Give an example of how Data Science is used in the financial industry. 2
- Q. 16 Explain the significance of google lens in smartphone Applications? 2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

- Q. 17 As Artificially Intelligent machines become more and more powerful, their ability to accomplish tedious tasks is becoming better. Hence, it is now that AI machines have started replacing humans in factories. While people see it in a negative way and say AI has the power to bring mass unemployment and one day, machines would enslave humans, on the other hand, other people say that machines are meant to ease our lives. If machines over take monotonous and tedious tasks, humans should upgrade their skills to remain their masters always.
What according to you is a better approach towards this ethical concern? Justify your answer. 4
- Q. 18 Write short notes on the following: 4
i) Image classification
ii) Localisation
iii) Object detection
iv) Image segmentation
- Q. 19 Explain Reinforcement Learning with suitable diagram. 4
- Q. 20 What is Data Exploration? Write any four tools for data visualization. 4
- Q. 21 Write any four data types/formats used in data science projects. 4
“Data science is multidisciplinary field”- Justify this statement.

D.A.V. INSTITUTIONS, WEST BENGAL ZONE
PERIODIC TEST II
SESSION 2024-2025

CLASS: X
SUBJECT: BENGALI

MAXIMUM MARKS: 80
TIME: 3Hours

General Instructions: -

1. The question paper contains 7 printed pages.
2. The question paper contains 16 questions.
3. The question paper is divided into **two** Parts.
PART –A: Objective type paper (MCQ): 25 Marks
PART –B: Descriptive type paper: 55Marks
4. **PART –A has three sections: (MCQ)**
Section – A: Reading (Unseen Comprehension): 12 Marks
4. Section - B: Grammar: 03 Marks
5. Section - C: Main Course Book & Supplementary Reader: 10 Marks
PART –B has three sections: (Subjective)
6. Section - B: Grammar: 10 Marks
7. Section – C: Main Course Book & Supplementary Reader: 33 Marks
8. Section – B: Creative writing : 12 Marks

PART- I, Objective Type Question (MCQ), SECTION –A (READING)

(অপঠিত গদ্যাংশের বোধপরীক্ষণ)

(Unseen Comprehension)

1. নিচের তিনটি গদ্যাংশ পড়ে প্রদত্ত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করো। 1X4=4
- A. খ্রিস্টপূর্ব ২৭৩ সালে অশোক মগধের সিংহাসনে আরোহণ করেন। প্রায় চল্লিশ বৎসর কাল রাজত্ব করেছিলেন অশোক। ঐতিহাসিকগণ তাঁর মৃত্যুকাল খ্রিস্টপূর্ব ২৩২ সাল নির্ণয় করেছেন। একমাত্র কলিঙ্গ যুদ্ধে ভিন্ন এই দীর্ঘকাল তাঁর রাজ্যের ভিতরে ও বাইরে পরিপূর্ণ শান্তি বিরাজমান ছিল। এই সময়ের মধ্যে কোন গৃহ বিপ্লব অথবা প্রতিবেশী রাষ্ট্র সমূহের সঙ্গে বিবাদ-বিসম্বাদের কোন উল্লেখ পাওয়া যায় না। সকল ঐতিহাসিক এক বাক্যে তাঁর মাহাত্ম্য কীর্তন করে বলেছেন যে, কি পূর্ব কি পশ্চিম পৃথিবীর কোথাও এমন কোন শাসক নেই যিনি ক্ষমতায় মৌর্য সম্রাটের তুল্য বলে গণ্য হতে পারেন।
- পশ্চিমে হিন্দুকুশ পর্বতমালা থেকে পূর্বে ব্রহ্মপুত্র নদ আর উত্তরে হিমাচলের পাদদেশ থেকে দক্ষিণে মাদ্রাজ পর্যন্ত সম্রাট অশোকের সাম্রাজ্য। তাঁর শাসনকালে এই বিশাল সাম্রাজ্য ছিল শান্তি ও সমৃদ্ধিতে পরিপূর্ণ। অশোকের আগে বুদ্ধের ধর্ম কেবলমাত্র ভারতবর্ষে বিস্তৃত হয়েছিল কিন্তু ভারতের বাইরে বৌদ্ধধর্ম প্রচার ও প্রসারের যা কিছু কৃতিত্ব তা একমাত্র রাজাধিরাজ অশোকেরই। শাক্যমুনির জন্মস্থান লুম্বিনীকে তিনি শুধু করমুক্ত করেননি, রাজভাণ্ডার থেকে বহু অর্থও তিনি প্রদান করেছিলেন।
- (I) অশোকের রাজত্বকালে শুধুমাত্র একটি বিপর্যয় হয়েছিল, সেটি হল-
- a. প্রতিবেশী রাষ্ট্রসমূহের সঙ্গে বাদ-বিসম্বাদ
b. গৃহ বিপ্লব
c. কলিঙ্গ যুদ্ধ
d. উপরের সবকটিই
- (II) অশোকের সাম্রাজ্য পূর্ব-পশ্চিমে কতদূর বিস্তৃত ছিল?
- a. হিন্দুকুশ পর্বতমালা থেকে ব্রহ্মপুত্র নদ পর্যন্ত।
b. হিমাচল থেকে মাদ্রাজ পর্যন্ত।
c. ব্রহ্মপুত্র নদ থেকে হিমাচলের পাদদেশ পর্যন্ত।
d. ব্রহ্মপুত্র নদ থেকে হিন্দুকুশ পর্বতমালা পর্যন্ত।
- (III) মন্তব্য:- মৌর্য সম্রাট অশোক একজন কৃতি সম্রাট ছিলেন।
- যুক্তি: (ক) – তাঁর শাসনকালে এই বিশাল সাম্রাজ্য ছিল শান্তি ও সমৃদ্ধিতে পরিপূর্ণ।

যুক্তি: (খ) – তাঁর সময়ের মধ্যে কোন গৃহ বিপ্লব বা প্রতিবেশী রাষ্ট্রসমূহের সঙ্গে বাদ-বিসম্বাদের কোন উল্লেখ নেই।

- a. যুক্তি (ক) এবং (খ) উভয়ই সঠিক। b. যুক্তি (ক) সঠিক (খ) ভুল।
c. যুক্তি (ক) ভুল (খ) সঠিক। d. যুক্তি (ক) এবং (খ) দুটিই ভুল।

(IV) “দীর্ঘকাল” শব্দটির অর্থ হল-

- a. ক্ষণকাল b. বহুকাল c. চিরকাল d. তিনকাল।

B. সুয়েজ খাল অতি প্রাচীন। প্রাচীন মিশরের ফেরো বাদশাহের সময় কতকগুলি লবণামু জলা খাতের দ্বারা সংযুক্ত করে উভয়সমুদ্রস্পর্শী এক খাত তৈয়ার হয়। মিশরে রোমরাজ্যের শাসনকালেও মধ্যে মধ্যে ওই খাত মুক্ত রাখবার চেষ্টা হয়। পরে মুসলমান সেনাপতি অমরু মিশর বিজয় করে ঐ খাতের বালুকা উদ্ধার ও অঙ্গপ্রত্যঙ্গ বদলে এক প্রকার নূতন করে তোলেন। তারপর বড় কেউ কিছু করেননি। তুরস্ক সুলতানের প্রতিনিধি, মিশর-খেদির ইস্মায়েল ফরাসীদের পরামর্শে অধিকাংশ ফরাসী অর্থে এই খাত খনন করান। এই খালের সমস্যা, মরুভূমির মধ্য দিয়ে যাবার কারণে বারবার বালিতে ভরে যায়। এই খাতের মধ্যে বড় বাণিজ্য জাহাজ একখানি একবারে যেতে পারে। বৃহৎ বাণিজ্য জাহাজ একেবারেই যেতে পারে না। একখানি জাহাজ যাচ্ছে আর একখানি আসছে, এই দুই-এর মধ্যে সংঘাত উপস্থিত হতে পারে – এইজন্যে সমস্ত খালটি কতগুলি ভাগে ভাগ করা হয়েছে। প্রত্যেক ভাগের দুই মুখে কিছুটা জায়গা এমনভাবে চওড়া করা আছে, যাতে দুই-তিনটি জাহাজ একসাথে যেতে পারে। ভূমধ্যসাগরমুখে এর প্রধান আফিস, আর প্রত্যেক বিভাগেই রেল স্টেশন-এর মত স্টেশন। সেই প্রধান আফিসে জাহাজটি খালে প্রবেশ করা মাত্রই তারে খবর যেতে থাকে। কখানি আসছে, কখানি যাচ্ছে এবং তারা কে কোথায় – তা খবর যাচ্ছে এবং একটি বড় নকশার উপর চিহ্নিত হচ্ছে। একখানির সামনে যদি আর একখানি আসে, এজন্যে এক স্টেশনের হুকুম না পেলে আর এক স্টেশন পর্যন্ত জাহাজ যেতে পারে না।

1X4=4

(I) গদ্যাংশটির মূল আলোচ্য বিষয় কী ?

- a. ভূমধ্যসাগরে খাল খনন প্রণালী। b. সুয়েজ খালের আদি কাহিনী।
c. সুয়েজ খালের নব্য রূপান্তর কাহিনী। d. ভূমধ্যসাগরে খাল খনন প্রণালী ও নব্য রূপান্তর কাহিনী।

(II) অতি বৃহৎ বাণিজ্য জাহাজ নব্য খাতের ভিতর দিয়ে একেবারেই যেতে পারে না।

কারণঃ ক) মরুভূমিতে বালির আধিক্য

খ) মরুভূমিতে জলের অপ্রতুলতা

- a. কারণ (ক) ঠিক কিন্তু কারণ (খ) ভুল b. কারণ (ক) ভুল কিন্তু কারণ (খ) ঠিক
c. কারণ (ক) ও কারণ (খ) দুটোই ঠিক d. কারণ (ক) ও কারণ (খ) দুটোই ভুল

(III) ‘ফরাসী অর্থে এই খাত খনন করান’ – এই খাত কারা খনন করান?

- a. মিশরের ফেরো ও তুরস্ক সুলতান। b. মিসর-খেদির ও মিশরের ফেরো।
c. মিশর বাদশাহ ও তুরস্ক সুলতান। d. তুরস্ক সুলতানের প্রতিনিধি ও মিশর-খেদির ইস্মায়েল।

(IV) ‘সংঘাত’ – শব্দটির বিপরীত শব্দ কোন্টি?

- a. সৃষ্টি b. সৃজন c. সন্ধি d. সমতা

C. ভারতে হিন্দু আমলে যে মাংস রান্নার পদ্ধতি ছিল, তার বিশেষ বর্ণনা পাওয়া যায় না। মাংসের মশলা ব্যবহারের কথা কোটিল্যের অর্থশাস্ত্রে আছে। ‘নল-পাক’ অর্থাৎ নল রাজার নামে প্রচলিত রন্ধন বিষয়ে যে সংস্কৃত বই প্রচলিত, তাতে অনেক রকমের ভাতের কথা আছে, শাক তরকারি মাংসের কথা কম। পুরাতন বাংলা সাহিত্যের বইয়ে রন্ধনের বর্ণনা আর নানা প্রকারের ব্যঞ্জননের নাম থেকে আমরা খ্রিস্টীয় পঞ্চদশ শতক থেকে, চৈতন্যদেবের সময় থেকে, শতাব্দীর পর শতাব্দী ধরে, বাঙালির আমিষ আর নিরামিষ খাদ্যের একটা পরিচয় পাই। তেমনি উত্তর ভারতে লেখা সংস্কৃত বই থেকে উত্তর ভারতের ‘কচ্চী’ অর্থাৎ

1X4=4

কাঁচা ভোজ- ডাল, ভাত, শাক, তরকারি – আর ‘পক্কী’ অর্থাৎ ঘৃতপক্ক উচ্চ শ্রেণির ভোজ – পুরি, কচুরি, লাড্ডু, মিঠাই, পেঁড়া প্রভৃতির বর্ণনা পাই। খাবারের নাম থেকে তার প্রাচীনতা ধরা যায়। লাড্ডু, পেঁড়া, খাজা, পূয়া বা মালপোয়া, বুঁদিয়া এই মিষ্টান্নগুলি মুসলমান-পূর্ব যুগের। মোহনভোগ নামটা প্রাচীন – এটির কথা সংস্কৃত বইয়ে পাওয়া যায়, ভারতের কোথাও কোথাও এই নাম প্রচলিত আছে, কিন্তু আরবি হালুয়া এই শব্দকে অপ্রচলিত করে দিয়েছে। গজা, বালুকাশাহি, জিলেবি, বরফি, কলাকান্দ – এগুলি পারস্য দেশ থেকে এসেছে। ‘গজা’ নামটির মূলরূপ শুনলে অনেক নিষ্ঠাবান হিন্দু এই মিষ্টি আর খেতে চাইবেন না। ফারসি “গও-জবান” অর্থাৎ গোজিহ্বা। তা থেকে গওজাঁ – গজা নামের এখন এমন পরিবর্তন হয়েছে যে মূল গজার রূপ বর্ণনার জন্য আমরা এর ব্যাখ্যা করে বলি – ‘জিভেগজা’।

(I) ‘গজা’ নামটির মূলরূপ শুনলে অনেক নিষ্ঠাবান হিন্দু এই জনপ্রিয় মিষ্টান্নটি আর খেতে চাইবেন না।

কারণ – (ক) মূল গজার রূপ বর্ণনার জন্য আমরা এর ব্যাখ্যা করে বলি – ‘জিভেগজা’।

(খ) ফারসি ‘গও-জবান’ অর্থাৎ গোজিহ্বা থেকে এসেছে কথাটি।

উক্ত বিবৃতির পরিপ্রেক্ষিতে সঠিক উত্তরটি হল-

- a. কারণ (ক) ঠিক কিন্তু কারণ (খ) ভুল। b. কারণ (ক) ভুল কিন্তু কারণ (খ) ঠিক।
c. কারণ (ক) ও কারণ (খ) দুটোই ঠিক। d. কারণ (ক) ও কারণ (খ) দুটোই ভুল।

(II) ‘কচ্চী’ অর্থাৎ কাঁচা ভোজ এর বর্ণনা আমরা কোথায় পাই?

- a. হিন্দি বই থেকে b. সংস্কৃত বই থেকে
c. মগধী বই থেকে d. ফরাসী বই থেকে

(III) কোন্ মন্তব্যটি ঠিক ?

- a. ‘পক্কী’ অর্থাৎ উচ্চ শ্রেণির জলযোগ। b. ‘পক্কী’ অর্থাৎ উচ্চ শ্রেণির ভোজ।
c. ‘পক্কী’ অর্থাৎ ঘৃতপক্ক উচ্চ শ্রেণির ভোজ। d. ‘পক্কী’ অর্থাৎ ঘৃতপক্ক জলযোগ।

(IV) ‘অর্থশাস্ত্র’ – শব্দটির ব্যাসবাক্যসহ সঠিক সমাস কোন্টি?

- a. অর্থপূর্ণ শাস্ত্র (উপমান কর্মধারয়) b. অর্থ বিষয়ক শাস্ত্র (মধ্যপদলোপী কর্মধারয়)
c. অর্থের শাস্ত্র (উপমিত কর্মধারয়) d. অর্থ রূপ শাস্ত্র (রূপক কর্মধারয়)

SECTION – B (ব্যাকরণ)(Grammar)

2. ব্যাকরণগত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করো (যে কোন তিনটি)

3X1=3

(I) “বুদ্ধ” শব্দটির সন্ধি বিচ্ছেদ করলে হবে-

- a. বুদ + ত b. বুধ + ধ c. বুধ্ + য d. বুধ্ + ত

(II) মধ্যপদলোপী কর্মধারয় সমাসের ক্ষেত্রে নীচে প্রদত্ত বিকল্পগুলির মধ্যে কোন্টি গ্রহণযোগ্য তা লেখ।

- a. পূর্বপদ উপমান এবং পরপদ সাধারণ ধর্মবাচক হয়। b. পূর্বপদ বিশেষণ এবং পরপদ বিশেষ্য হয়।
c. ব্যাসবাক্যের মধ্যস্থিত পদটি লোপ পায়। d. উপমান ও উপমেয়র মধ্যে গভীর সাদৃশ্য থাকে।

(III) সমাস সম্পর্কিত বাম পাশের বক্তব্যের সঙ্গে ডান পাশের উত্তরগুলি মিলিয়ে সঠিক উত্তরটি নির্বাচন করে লেখ।

বাম	ডান
1) মিলের অভাব= গরমিল	১) রূপক কর্মধারয়
2) প্রাণ রূপ পাখি= প্রাণপাখি	২) মধ্যপদলোপী কর্মধারয়
3) তুমি ও সে = তোমরা	৩) অব্যয়ীভাব
4) ছাত্রকালীন দশা = ছাত্রদশা	৪) দ্বন্দ্ব

- a. 1(৪), 2(৩), 3(১), 4(২) b. 1(১), 2(৪), 3(২), 4(৩)
c. 1(২), 2(১), 3(৪), 4(৩) d. 1(৩), 2(১), 3(৪), 4(২)

(IV) আয় ও ব্যয় = আয়ব্যয় -এটি হল

- a. বিপরীতার্থক দ্বন্দ্ব সমাস। b. সমার্থক দ্বন্দ্ব সমাস।
c. একশেষ দ্বন্দ্ব সমাস। d. সমাহার দ্বন্দ্ব সমাস।

(V) বিসর্গসন্ধির কোনো নিয়মই নীচের কোন্ শব্দটির ক্ষেত্রে প্রযোজ্য হয়নি?

- a. আশীর্বাদ b. মনীষা c. নীরব d. মনোবল

SECTION - C

(মূল পাঠ্যপুস্তক এবং সম্পূরক পাঠ/অনুপুঙ্খ পাঠ)

(Main Course Book and Supplementary Reader non- detailed text):(MCQ)

3. পাঠ্য গল্প থেকে প্রদত্ত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করো। (যে কোনো ছয় টি)

1X6=6

(I) “টপ টপ করে তাঁর চোখ দিয়ে জল গড়িয়ে পড়ল কয়েক ফোঁটা”- আলো বাবুর চোখ দিয়ে জল গড়িয়ে পড়ার কারণ

কারণ (ক): আলোবাবুর হাসপাতালের চাকরিটি চলে গিয়েছিল।

কারণ (খ): আলোবাবুর অতি যত্নে রাখা ঘড়িটি চুরি হয়ে গিয়েছে।

- a. কারণ (ক) এবং কারণ (খ) দুটিই ভুল। b. কারণ (ক) ভুল হলেও কারণ (খ) সঠিক।
c. কারণ (ক) সঠিক হলেও কারণ (খ) ভুল। d. কারণ (ক) এবং কারণ (খ) দুটোই সঠিক।

(II) ঘটনাক্রম অনুসারে সঠিক বিকল্পটি নির্দেশ কর।

১) পৃথিবীতে এমন অলৌকিক ঘটনাও ঘটে?

২) আমার বাড়িতে বিয়ের আয়োজন।

৩) শার্টের তলায় চোখ মোছা।

৪) তপন প্রবল আপত্তি তোলে।

- a. ৩, ১, ২, ৪ b. ১, ৩, ৪, ২ c. ৩, ১, ৪, ২ d. ২, ৪, ১, ৩

(III) “বেচারির খেতে দেরি হয়ে গেল আজকে”- ‘বেচারি’ বলতে এখানে কার কথা বলা হয়েছে?

- a. আলোবাবুর কথা। b. আলোবাবুর ঘড়িটির কথা।
c. রামবাবুর গায়ের বাচ্চার কথা। d. বিনুবাবুর কুকুরের কথা।

(IV) কার্য: “এর প্রত্যেকটা লাইন তো নতুন আনকোরা”।

কারণ (ক): তপন নিজে গল্পটি লেখেনি বলে।

কারণ (খ): তপনের মেসো গল্পটিকে আগাগোড়া কারেকশান করেছেন বলে।

- a. কারণ (ক) সঠিক হলেও কারণ (খ) ভুল। b. কারণ (ক) ভুল হলেও কারণ (খ) সঠিক।
c. কারণ (ক) এবং কারণ (খ) দুটিই সঠিক। d. কারণ (ক) এবং কারণ (খ) দুটিই ভুল।

(V) পাখিটি ভালো হয়ে গেলে আলোবাবু তাকে নিয়ে কী করবেন?

- a. ছেড়ে দেবেন। b. কাউকে দিয়ে দেবেন।
c. বিক্রি করে দেবেন। d. নিজের কাছে রাখবেন।

(VI) “গায়ে কাঁটা দিয়ে উঠল তপনের, মাথার চুল খাড়া হয়ে উঠল”- কারণ

- a. তপনের লেখা গল্প ‘সন্ধ্যাতারা’ পত্রিকায় প্রকাশ পেয়েছে।
b. গল্প লেখার পর তার প্রচণ্ড জ্বর এসেছিল।
c. গল্পের বই সে লিখতে ভালোবাসতো, তাই আস্ত একটা গল্পের বই লিখে ফেলেছিল।
d. একটা গল্প লিখে পড়ার পর উত্তেজনা হচ্ছিল।

(VII) আলো বাবুকে পাগলা গারদে রাখা হয়েছিল কারণ-

- a. আলোবাবু বাস্তবতার সঙ্গে সম্পর্কবিহীন ছিলেন আর সাংসারিক কাণ্ডজ্ঞান শূন্য স্নেহ পরায়ণতার জন্য।
- b. আলোবাবুর আচরণ পাগলা গারদে থাকারই যোগ্য।
- c. আলোবাবুর সঙ্গে ডাক্তারবাবু খারাপ ব্যবহার করেছিলেন।
- d. হাসপাতালে রোগীর গায়ে কার্বলিক অ্যাসিড ঢেলে দেওয়ার জন্য।

(VIII) “এইসব মালমশলা নিয়ে বসে”- মালমশলা হল,

- a. খুনজখম, অ্যাক্সিডেন্ট, না খেতে পেয়ে মরে যাওয়া।
- b. রাজারানির গল্প, বেশি খাওয়া, খুনজখম, অ্যাক্সিডেন্ট।
- c. রাজারানির গল্প, খুন জখম, অ্যাক্সিডেন্ট, অনাহারে মৃত্যু।
- d. রাজা জমিদারের গল্প, অ্যাক্সিডেন্ট, অনাহারে মৃত্যু।

4. গল্পগুচ্ছ থেকে প্রদত্ত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করো (যে কোনো চারটি)

1X4=4

(I) বদলির আবেদন নামঞ্জুর হলে পোস্টমাস্টার -

- a. কাজে জবাব দিয়েছিলেন।
- b. পুরনো কাজেই বহাল ছিলেন।
- c. নতুন কাজ খুঁজে নিয়েছিলেন।
- d. পুনরায় বদলির আবেদন করেছিলেন।

(II) মন্তব্য : মিনি ও কাবুলিওয়ালা এই দুজন অসমবয়সীর মধ্যে গভীর হৃদয়তা গড়ে উঠেছিল

কারণ (ক): কাবুলিওয়ালা রোজ মিনিকে আখরোট, কিশমিশ এবং আপেল দিত।

কারণ (খ): কাবুলিওয়ালার অন্তরে ছিল অফুরন্ত বাৎসল্যরস।

- a. কারণ (ক) ঠিক কিন্তু কারণ (খ) ভুল
- b. কারণ (ক) এবং কারণ (খ) দুটি সঠিক
- c. কারণ (ক) এবং কারণ (খ) দুটিই ভুল
- d. কারণ (ক) ভুল হলেও কারণ (খ) সঠিক

(III) ভাইয়ের সঙ্গে রতনের বিশেষ কোন খেলাটার কথা বেশি মনে পড়তো?

- a. ভাইয়ের সঙ্গে একসাথে ফুটবল খেলার কথা।
- b. ভাইয়ের সঙ্গে গাছের ডালকে ছিপ করে মিছিমিছি মাছ ধরার খেলার কথা।
- c. বৃষ্টির জলের মধ্যে কাগজের নৌকা ভাসিয়ে ফেলার কথা।
- d. গাছের ডাল কে তীর ধনুক বানিয়ে রাম রাবণের যুদ্ধ যুদ্ধ খেলার কথা।

(IV) ভৈরব রাগিণীতে কোন সুর বেজেছে?

- a. আনন্দের
- b. প্রেমের
- c. বিচ্ছেদের
- d. পূজার

(V) “এস্থলে প্রবাসীর মনের অভিলাষ ব্যর্থ হইল না”- প্রবাসীর মনের অভিলাষ কি ছিল?

- a. পোস্টমাস্টারের পদ থেকে চাকরির ইস্তফা।
- b. কলকাতার বাড়িতে সবাইকে নিয়ে থাকা।
- c. রতনের ভার অন্য পোস্টমাস্টারের হাতে তুলে দেওয়া।
- d. পোস্টমাস্টারের প্রবাসে রোগ কালে কোন স্নেহহীন হস্তের সেবা-শুশ্রূষা।

(VI) “আজিকার শুভদিনে এই লোকটা এখান থেকে গেলেই ভালো হয়”-এই উক্তি কখন ভাব প্রকাশ পেয়েছে?

- a. সামাজিক প্রেক্ষাপট।
- b. সামাজিক রীতিনীতি।
- c. সামাজিক অবহেলা।
- d. সামাজিক কুসংস্কার।

PART – II : DESCRIPTIVE TYPE QUESTION

বিভাগ – B : ব্যাকরণ (বিষয়গত)

SECTION – B : Grammar (Subjective)

5. নিম্নরেখাক্রিত পদদণ্ডলির ব্যাসবাক্য সহ সমাস নির্ণয় কর:- (যেকোনো চারটি) 1X4=4
- (a) ফ্যানে-জলে দে না এক গামলা থাক।
(b) প্রচন্ড সূর্যের তাপে মাঠ ফুটি-ফাটা হয়ে গেছে।
(c) রাজর্ষি উপন্যাস আজও আমাদের মুগ্ধ করে।
(d) শ্রীচৈতন্যের মুখচন্দ্র দর্শনে ভক্তরা আত্মতুষ্ট।
(e) আশৈশব আমি অত্যন্ত অলস।
(f) ছেলেটি শশব্যস্ত হয়ে বাড়িতে ঢুকলো।
6. সন্ধি যুক্ত কর (যে কোন তিনটি) 1X3=3
- নিঃ + নয়, প্রাতঃ + আশ, বাক্ + ঈশ, পদ্ + হতি
7. সন্ধিবিচ্ছেদ করো, (যেকোনো তিনটি) 1X3=3
- সিংহ, উজ্জ্বল, বিপ্রর্ষি, ষণ্মাস

SECTION – C

(মূল পাঠ্যপুস্তক এবং সম্পূরক পাঠ / অননুগৃহ্য পাঠ)

(Main Course Book & Supplementary Reader / Non- Detailed Text)

- 8 “বুকের রক্ত ছলকে ওঠে তপনের” কখন তপনের এরূপ অবস্থা হয়? 2
9. (a) “কুকুর পোষার শখ আছে কিন্তু সেবা করতে জানেনা”-বক্তার এরূপ মন্তব্যের কারণ কী? 3
(b) “মেসোর উপযুক্ত কাজ হবে সেটা”-কোন কাজটিকে মেসোর উপযুক্ত কাজ বলা হয়েছে?এ কথা বলার কারণ কি? 3
- 10 “মনে হল যেন পূজো করছেন” – কে, কোন্ প্রসঙ্গে একথা বলেছেন? উক্তিটির মধ্যে পূজোর সঙ্গে কোন্ জিনিসের তুলনা করা হয়েছে এবং কীভাবে? 5

অথবা

“রত্নের মূল্য জহুরির কাছেই।” – ‘রত্ন’ এবং ‘জহুরি’ শব্দদুটির অর্থ কী? ‘জ্ঞানচক্ষু’ গল্পকে কেন্দ্র করে এই মন্তব্যের সমর্থনে তোমার মন্তব্য ব্যক্ত কর।

11. সপ্রসঙ্গ ব্যাখ্যা কর: 5
- “সহজ করে বাঁচা কি আর খাঁচাতে সম্ভব”

অথবা

“আমাদের পথ নেই / কোন আমাদের ঘর গেছে উড়ে”

- 12 “আয় আরো বেঁধে বেঁধে থাকি”- কবিতায় ‘আমরা’ বলতে কাদের বোঝানো হয়েছে?তারা নিজেদের সর্বদা ভিখারী বলেছে কেন ? 2+3=5

অথবা

‘তিন পাহাড়ের কোলে – কবিতায় কারা কোথায় পথ হারিয়েছেন? কবির চোখে নতুন পথ কিভাবে ধরা পড়েছে ?

- 13 “শরীরটা ভালো বোধ হচ্ছে না। দেখ তো আমার কপালে হাত দিয়ে”-
(a) কে কাকে এ কথা বলেছিলেন? 2+3=5
(b) এরপর কি ঘটেছিল?

14 “আমি তো সওদা করিতে আসিনা”-

2+3=5

(a) কে, কাকে, কখন এ কথা বলেছিল?

(b) এ কথার অন্তরালে বক্তার কোন মনের ভাব প্রকট হয়েছে বলে তুমি মনে কর?

অথবা

“রতন আর কোন কথা জিজ্ঞাসা করিল না”-

(a) পোস্টমাস্টারের কোন ব্যবহারে রতন মর্মাহত?

(b) নৌকায় চাপার পর পোস্টমাস্টারের মনে রতনের জন্য কোন কোন ভাবনার উদয় হয়েছিল?

বিভাগ - D

SECTION - D

(সৃজনাত্মক লিখন)

15. নিম্নলিখিত যে-কোনো একটি বিষয় অবলম্বন করে অনুচ্ছেদ রচনা করো।

1X6=6

(I) টি-২০ বিশ্বকাপ ও ভারত

(II) বাংলার উৎসব ও সংস্কৃতি

(III) মানব জীবনে অবকাশের প্রয়োজনীয়তা

16. নিম্নলিখিত বিষয় অবলম্বনে সম্পাদকের প্রতি যে-কোনো একটি পত্র রচনা করো। (শব্দসীমা অনধিক ১৫০)

1X6=6

রাস্তাঘাটে চলাচলের সময় মোবাইল ফোনের ব্যবহার বন্ধ করা বিশেষ প্রয়োজন।

এই বিষয়ে দৈনিক ‘সেরা খবর’ সংবাদপত্রের সম্পাদকের কাছে একটি সম্পাদকীয় পত্র রচনা করো।

অথবা

তোমার এলাকায় অনেক গুলি খাবারের দোকান, রেস্টুরেন্ট আছে। তুমি লক্ষ্য করেছ যে এই দোকান বা রেস্টুরেন্ট গুলিতে বারো-তেরো বছরের কিছু ছেলে মেয়ে কাজ করছে। অর্থাৎ শিশু, শিক্ষার সুযোগ না পেয়ে শ্রমিকে পরিণত হয়েছে। এই সামাজিক সমস্যা ও প্রতিকারের কথা জানিয়ে ব্যারাকপুর থেকে প্রকাশিত ‘উপনগরীর কথা’ পত্রিকায় একটি সম্পাদকীয় পত্র লেখো।

D.A.V. INSTITUTIONS, WEST BENGAL ZONE
PERIODIC TEST-II
SESSION: 2024-2025

CLASS: X
SUBJECT: ENGLISH COMMUNICATIVE

MAXIMUM MARKS: 80
TIME: 3 HOURS

General Instructions:

1. 15-minute prior reading time allotted for Question paper reading.
2. The Question Paper contains FOUR sections-READING SKILLS, WRITING SKILLS, GRAMMAR and LITERATURE TEXTBOOK.
3. Attempt questions based on specific instructions for each part.

SECTION A: READING SKILLS (22 MARKS)

1. Read the following passage. (12)
- A. One in six people are aged 10–19 years. Adolescence is a unique and formative time. Protecting adolescents from adversity, promoting socio-emotional learning and psychological well-being, and ensuring access to mental health care are critical for their health and well-being during adolescence and adulthood.
- B. Globally, it is estimated that 1 in 7 (14%) 10–19-year-olds experience mental health conditions, yet these remain largely unrecognized and untreated.
- C. Adolescents with mental health conditions are particularly vulnerable to social exclusion, discrimination, stigma, educational difficulties, risk-taking behaviours, physical ill-health and human rights violations.
- D. Mental health determinants
Adolescence is a crucial period for developing social and emotional habits important for mental well-being. These include adopting healthy sleep patterns; exercising regularly; developing coping, problem-solving, and interpersonal skills; and learning to manage emotions. Protective and supportive environments in the family, at school and in the wider community are important.
- E. Multiple factors affect mental health. The more risk factors adolescents are exposed to, the greater the potential impact on their mental health can exacerbate the disparity between an adolescent's lived reality and their perceptions or aspirations for the future. Other important determinants include the quality of their home life and relationships with peers.
- F. Emotional disorders are common among adolescents. Anxiety disorders (which may involve panic or excessive worry) are the most prevalent in this age group and are more common among older than among younger adolescents. It is estimated that 3.6% of 10–14-year-olds and 4.6% of 15–19-year-olds experience an anxiety disorder. Depression is estimated to occur among 1.1% of adolescents aged 10–14 years, and 2.8% of 15–19-year-olds. Factors that can contribute to stress during adolescence include exposure to adversity, pressure to conform with peers and exploration of identity. Media influence and gender norms, depression and anxiety share some of the same symptoms, including rapid and unexpected changes in mood.
- G. Behavioural disorders are more common among younger adolescents than older adolescents. Attention deficit hyperactivity disorder (ADHD), characterized by difficulty paying attention, excessive activity and acting without regard to consequences, occurs among 3.1% of 10–14-year-olds and 2.4% of 15–19-year-olds. Conduct disorder (involving symptoms of destructive or challenging behaviour) and behavioural disorders can affect adolescents' education and social life.
- H. Eating disorders, commonly emerge during adolescence and young adulthood. Eating disorders involve abnormal eating behaviour and preoccupation with food, accompanied, in most instances, by concerns about body weight and shape.

(396 words)

Answer the following questions, based on the passage above.

- | | | |
|------|--|---|
| i. | The paragraph explicitly mentions | 1 |
| | A. Importance of specific programs used to promote mental health. | |
| | B. The research supporting the effectiveness of various interventions. | |
| | C. Various mental health conditions and disorders that affect adolescents. | |
| | D. The potential challenges or barriers to implement these interventions. | |
| ii. | List 2 crucial habits for mental well-being during adolescence. (Answer in 30-40 words) | 2 |
| iii. | Which of the following statements best summarizes the main idea of paragraph D? | 1 |
| | A. Adolescence is a period marked by physical, emotional, and social changes. | |
| | B. Protective and supportive environments are crucial for adolescent mental well-being. | |
| | C. Mental health conditions among adolescents are often unrecognized and untreated. | |
| | D. Risk factors during adolescence can significantly impact mental health outcomes. | |
| iv. | After which paragraph of the above article, would the following paragraph most likely be placed? | 1 |

Mental health promotion and prevention interventions aim to strengthen an individual's capacity to regulate emotions, enhance alternatives to risk-taking behaviours, build resilience for managing difficult situations and adversity, and promote supportive social environments and social networks.

- | | | |
|-----|--|---|
| | A. After paragraph C | |
| | B. After paragraph H | |
| | C. After paragraph B | |
| | D. After paragraph F | |
| v. | Briefly discuss (in 30- 40 words) any 2 factors that contribute to stress during adolescence. | 2 |
| vi. | Substitute the underlined word in the following sentence with a word/ phrase from paragraphs D-F, that means the same. | 1 |

Violence, harsh parenting, social exclusion and stigma can inflamme seclusion and loneliness.

- | | | |
|------|--------------------------------------|---|
| vii. | Complete the sentence appropriately. | 1 |
|------|--------------------------------------|---|

If the title, “*Cultural Diversity and Adolescent Identity Formation*” is given to the passage, it would be an inappropriate title, as compared to “*Understanding Adolescent Mental Health: Challenges and Interventions*” because _____.

- | | | |
|-------|--------------------------------------|---|
| viii. | Complete the sentence appropriately. | 1 |
|-------|--------------------------------------|---|

Behavioural disorders, which is more common among young adolescents, can arise from complex interplay of factors and results in _____.

- | | | |
|-----|--|---|
| ix. | Complete the following sentence appropriately. | 1 |
|-----|--|---|

Based on the use of the word “conform” to describe factors that can contribute to stress during adolescence, in Paragraph F, we can infer that adolescents often experience pressure to _____.

- | | | |
|----|--|---|
| x. | State whether the given assertion is TRUE or FALSE on the basis of the understanding of the passage. | 1 |
|----|--|---|

Educational achievements and social life of adolescents can be affected by behavioural disorders

2	Read the following table of a survey about the choices of cars among six respondents.							(10)
Respondent's Name and age	Respondent's Profession	Type of car (Small, Big, SUV)	Fuel (Petrol, Diesel, CNG, Electric Vehicle)	Model of the car	Number of people travelling in car	Would consider change in Transport? Specify car pool, bus or bicycle	Reasons for not using public transport/ carpooling or bicycle	
Mr. Sujoy Sharma 42 years	Promoter/ Developer	SUV	CNG	Top model	02	No	Fast movement required	
Ms. Moitreyee Halder 29 years	Teacher	Small	EV	Base model	01	Yes, Car pool	Not Applicable	
Mr. Atul Kulkarni 56 years	Magazine Editor	Big	Diesel	Top model	02	No	Fast movement required	
Dr. Nitin Shekhar 58 years	Cardiologist	Small	EV	Top model	02	Yes, Car pool	Not Applicable	
Mrs. Sudha Pandit 48 years	Garment shop owner	Small	Petrol	Base model	02	Yes, Car pool	Not Applicable	
Mr. Abani Karmakar 50 years	Govt. Service	Big	Diesel	Base model	04	No	Fast movement required	
(143 words)								

Answer the following questions based on the above table.

- Who among the above respondents believes that car is essential for impressing others? Give one reason in support of your answer. 2
- Who among the following is the most modern and rational so far car is concerned? 1
 - Mr. Sujoy Sharma
 - Ms. Moitreyee Halder
 - Mrs. Sudha Pandit
 - Mr. Abani Karmakar
- Justify the statement with one evidence from the table that 'Ms. Moitreyee Halder wishes to be independent'. 2
- Select the correct option to complete the analogy. 1
Agreement paper: Mr. Sujoy Sharma:: Cumulative Card:-----
- Who, among the following, is likely to be very busy before religious festivals in India? 1
 - Mrs. Sudha Pandit
 - Ms. Moitreyee Halder
 - Dr. Nitin Shekhar
 - Mr. Abani Karmakar
- Complete the given sentence with the appropriate reason, with reference to the information in the table. 1
'Government is emphasising on cost curtailment which is reflected in -----'
- If a country celebrates 'Fourth Pillar of Democracy' who among the following respondents is likely to attend? 1
 - Mr. Atul Kulkarni
 - Mr. Abani Karmakar
 - Dr. Nitin Shekhar
 - Mr. Sujoy Sharma

- viii. Select the option that correctly matches the car of the respondents and the refuelling stations in sequence. 1



- I II III
- A. Mr. Sujoy Sharma, Ms. Moitreyee Halder, Dr. Nitin Shekhar
B. Dr. Nitin Shekhar, Mrs. Sudha Pandit, Ms. Moitreyee Halder
C. Mr. Atul Kulkarni, Mr. Sujoy Sharma, Dr. Nitin Shekhar
D. Mr. Sujoy Sharma, Mrs. Sudha Pandit, Ms. Moitreyee Halder

SECTION B: WRITING SKILLS (22 MARKS)

3. As the school head girl/ head boy, write an email, in about 50 words, to the Teacher in Charge of your school, informing her/him of the need for 70 saplings on the occasion of Vanmahotsav. Include a reason why you would need some space inside the school campus. 3
- You may copy the given template to write your email.

From:	
To:	
Cc:	
Date:	July 3, 2024, 08:05 PM
Subject:	

4. Write a factual description, in not more than 100 words, of a school senior, whom you met after years, as the newly recruited HPE teacher of your school. 4
- 5.a. Write a letter to an NGO named “Jugaad”, in not more than 120 words, to conduct a workshop in your school to teach how to make various crafts by recycling waste products and how it can save our environment from garbage and pollution. You are the Head of the Eco-Club of your school. You may use ideas from UNIT: 3 SCIENCE, along with your own ideas to write the letter. 7

(OR)

- 5.b. Suppose you are the School Captain of DAV Public School Loknath Nagar. Write a letter, in not more than 120 words, to the Director of ‘Prayas’, an indigenous games promoting institute, to organize indigenous games exhibition matches in the school as a part of Shiksha Sapta celebration by CBSE. You may use ideas from UNIT: 1 HEALTH AND MEDICINE, along with your own ideas to write the letter.
- 6.a. As a student of class 10 you have noticed, that many children, have taken admission, in your school, who have some or the other learning difficulties or physical predicament. You find them very happy in the school and very happily participating in different activities. Write an article for your school magazine in 150 words on ‘Inclusive Education promotes equity’. Use the given cues, along with your own ideas and those you may have gathered from UNIT 2: ‘EDUCATION’ to create this article. 8

Equal before the law- Same content and standard of learning- Not separated for disability- a better social view develops- Learn social responsibility- Assessed with different parameters- develops zest for living

(OR)

- 6.b. You are the Captain of the Science Club of your school. You have realized that modern technology will leave an unerasable mark on the learning process in school education. Draft an article in 150 words to be published in the school magazine on ‘Use of Technology in Education’. Use the given cues, along with your own ideas and those you may have gathered from UNIT 3: ‘SCIENCE’ to create this article.

SECTION C: GRAMMAR (10 MARKS)

7. Complete the tasks A-C, as directed.

10

(A) Fill in the blanks (i) – (iii) with the appropriate option from those in the brackets.

1x3=3

The stray dogs(i) _____ (ought not/ may not/ should not) be adopted as pets, still they can be fed. This(ii) _____ (should/ must/ would) not only make the dogs less aggressive but also get them to behave like pets. If we want to tackle the problem, we should also be (iii) _____ (prepare/ prepared/ will prepare) to do our bit to solve it.

(B) The following paragraph, has not been edited. There is one error in each line. Write the incorrect word and the correction against the lines, as shown below. The first one has been done as an example.

1x4=4

No.	Text	Incorrect	Correct
e.g.	Homi Bhabha slept much less as other children	as	than
i	of his age. His parents taken him to		
ii	little doctors, who subjected him to several		
iii	tests, after that they discovers that he		
iv	had the super-active brain capacity.		

(C) Do as directed.

3

i. (i)Rearrange the following jumbled words/phrases in the given dialogue to create a meaningful sentence.

1

Anushka : Do you have any idea how old Saturn is?

Pratima : Not exactly. Please tell me about it.

Anushka : years ago/it is estimated/that/with the rest/Saturn was/formed along/of the/about 4.5 billion/Solar System

ii. Report the dialogues to complete the paragraph that follows.

1+1

Rajat: Father, I want your room.

Father: Why?

Rajat: I have to receive a friend.

Father: You have your own room.

Rajat: My room is too small. I can't show it to Rahul.

Rajat sought his father's permission to use his room because he had to receive a friend. His father said that he (i)_____ own room. Rajat replied that his room (ii)_____ to be shown to Rahul.

SECTION D: LITERATURE TEXTBOOK (26 MARKS)

8. Read the given excerpts and answer the questions briefly, ANY TWO, of the three given questions.

4+4=8

(A) But next morning, when I went over to the fountain to have my shoes shined, I said, "Nicola, the way you and Jacopo work, you must earn quite a bit. You spend nothing on clothes. You eat little enough --- when I see you have a meal it's usually black bread and figs. Tell me, what do you do with your money?"

He coloured deeply under his sunburn, then grew pale. He looked to the ground.

"You must be saving up to emigrate to America," I suggested. He looked at me sideways, spoke with an effort.

"We should greatly like to go to United States. But here, at present, we have other plans."

"What plans?"

He smiled uncomfortably. "Just plans, sir," he answered in a low voice.

(Two Gentlemen of Verona)

i. Identify the phrase which indicates that though the boys earned fairly enough, they didn't have proper appetite?

1

- ii. Why did Nicola's face appear 'coloured' when the narrator questioned him about his use of money? 1
- iii. Briefly explain the reason behind Nicola's 'uncomfortable smile' while answering the narrator's question? 1
- iv. What character trait of the two brothers is reflected as they spent very little on themselves? 1
- (B) Not marble, nor the gilded monuments
Of princes, shall outlive this powerful rhyme;
But you shall shine more bright in these contents
Than unswept stone, besmear'd with sluttish time.
(*Not Marble, nor the Gilded Monuments*)
- i. What can we infer about the poet's tone from the stanza? 1
- ii. List the meaning of the phrase "shine more bright in these contents". 1
- iii. Why does the poet refer to time as being 'sluttish'? 1
- iv. Why did the poet use the word 'stone' instead of 'statue'? 1
- (C) MRS. JORDAN: Oh, yes. It's a fatal mistake.
MRS. SLATER: Pringle attended him when he was alive and Pringle shall attend him when he's dead. That's professional etiquette.
BEN: Well, you know your own business best, but-
MRS. JORDAN: Yes-it's a fatal mistake.
MRS. SLATER: Don't talk so silly, Elizabeth. What good could a doctor have done?
MRS. JORDAN: Look at the many cases of persons being restored to life hours after they were thought to be 'gone'.
HENRY: That's when they've been drowned. Your father wasn't drowned, Elizabeth.
BEN: (humorously) There wasn't much fear of that. If there was one thing he couldn't bear, it was water.
(*The Dear Departed*)
- i. What 'fatal mistake' is Mrs. Jordan talking about? 1
- ii. Mrs. Slater says that "Pringle attended him when he was alive and Pringle shall attend him when he's dead." State the irony of the line. 1
- iii. Find out a statement from the given conversation that shows disrespect towards Abel MerryWeather. 1
- iv. The phrase 'fatal mistake' has been repeated twice in the given excerpt. What do you think about the assumption of the characters as far as Abel MerryWeather is concerned? 1
9. Answer **ANY FIVE** of the following six questions in about 30 – 40 words each. 10
- i. The frog, in the poem '*The Frog and the Nightingale*', promised saying "Oh!... But it won't hurt, you'll see". Elaborate how the statement of the frog was ironical. 2
- ii. What does the writer, Saki, wish to convey through the given line from the fiction, *Mrs Packletide's Tiger*? 2
.... *Mrs. Packletide was an exception, her movements and motives were largely governed by dislike of Loona Bimberton.*
- iii. The postman understood Ali's situation when the postman stepped into his shoes. Comment in the light of the story '*The Letter*'. 2
- iv. In the story, *A Shady Plot*, how is Hallock's character a commentary on a good husband? 2
- v. Elucidate how '*Not Marble, nor the Gilded Monuments*' by William Shakespeare and '*Ozymandias*' by P.B. Shelly have contrasting themes? 2
- vi. The line "*The hand that mocked them, and the heart that fed;*" does not name whose hand and whose heart. Explain how is the given line aligned to the theme of the poem, '*Ozymandias*'? 2
10. Answer **ANY ONE** of the following two questions in about 150 words. 8
- (A) *The Letter* by Dhumaketu and *The Dear Departed* by Stanley Houghton, both have two elderly characters- Ali and Abel MerryWeather respectively. Elaborate with instances from the fiction and the drama, in about 150 words, how both of them have contradictory old age.
- (OR)
- (B) Suppose, Lavinia, writes a letter to her friend, who is the editor of a women's magazine, about her encounter with a ghost which had live propositions. Write the letter in 150 words.

Class : X

Subject : HINDI

Maximum Marks : 80

Time : 3 Hours

सामान्य निर्देश :

1. 7 पृष्ठ के इस प्रश्नपत्र में चार खंड हैं- खंड 'क', 'ख', 'ग' और 'घ'।
2. प्रश्नपत्र के चारों खंडों में प्रश्नों की संख्या 15 है, और सभी प्रश्न अनिवार्य हैं।
3. दिए गये निर्देशों का पालन करते हुए सभी प्रश्नों एवं उपप्रश्नों के उत्तर लिखना अनिवार्य है।

खंड-क (अपठित बोध)

1. निम्नलिखित गद्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प का चयन करके लिखिए, एवं दिए गये प्रश्नों का उत्तर लिखिए:-

कोई अपने दुर्भाग्य को कोस रहा है, कोई अपने पारिवारिक दीनता को दोषी बता रहा है, कोई सहारे के अभाव को अपनी असफलता का आधार मान रहा है- बहुत से असफल व्यक्ति इसी तरह अनेक कारणों को अपनी असफलता का आधार मानते हैं, विभिन्न कारणों की कल्पना कर हाथ-पर-हाथ धरे बैठे रहते हैं। वे अपने जीवन में कुछ कर नहीं पाते। वे समाज के लिए, संसार के लिए कुछ नहीं कर पाते। ऐसे मनुष्यों को जीवन में कोई राह नहीं मिलती, कोई चारा नहीं दिखता। वे दूसरों से अपेक्षा करते हैं कि कोई उन्हें किसी लक्ष्य प्राप्ति का मार्ग दिखाए, सफलता की सीढ़ी बताए, जिससे वे उस पर आसानी से चढ़ सकें। किंतु, ऐसे लोगों को यह भली-भाँति जानना चाहिए कि जहाँ चाह है, वहीं राह है। हमारी इच्छाशक्ति स्वयं हमारे लिए मार्ग बना देती है। अच्छे कार्य में धन की उतनी आवश्यकता नहीं होती, जितनी इच्छाशक्ति की होती है। 'एमर्सन' ने ठीक ही कहा कि इतिहास, पुराण सभी साक्षी हैं कि मनुष्य के दृढ़-संकल्प के आगे देव-दानव सभी पराजित होते रहे हैं। दृढ़-इच्छाशक्ति ने भगवान तक को घंटों कच्चे धागे से बाँधकर नचाया है। हाँ, इतना ध्यान रखना होगा कि हमारी चाह बरसाती बादल का एक टुकड़ा न हो, जिसे हवा का एक झोंका जिधर चाहे उड़ा कर ले जाए। यदि हमारी इच्छाशक्ति क्षुद्र और दुर्बल होगी तो हमारी मानसिक शक्तियों का कार्य भी वैसा ही होगा। स्वामी विवेकानंद का दिव्य वचन है कि पवित्र और दृढ़इच्छा सर्वशक्तिमान है, अतः यह नीति ठीक है कि हमारी चाह ही रास्ता बन जाती है। अंधकार से आछन्न मानव ने कभी इच्छा व्यक्त की थी कि प्रकाश हो, और प्रकाश हो गया। मनुष्य की चाह, लगन, उत्कट इच्छा-चमत्कार की अनगिनत कहानियाँ हैं। चाणक्य के पास आखिर था क्या? किंतु, नंद-साम्राज्य के विनाश के उत्कट संकल्प ने उसके लिए मार्ग निर्माण कर दिया था।

- (क) अधिकांश असफल व्यक्ति कुछ विशेष क्यों नहीं कर पाते हैं?

(1)

- (A) ईश्वर को मानने के कारण।
- (B) दूसरों से ईर्ष्या-द्वेष के कारण।
- (C) दूसरों को दोषी ठहराने के कारण।
- (D) स्वयं को महान समझने के कारण।

(ख) असफल व्यक्ति दोषी मानते हैं—

(1)

- (A) दुर्भाग्य को।
- (B) धन प्राप्त करने को।
- (C) पारिवारिक दृढ़ता को।
- (D) मित्रों के सहयोग को।

(ग) कथन और कारण को पढ़कर उपयुक्त विकल्प चुनकर लिखिए—

(1)

कथन- मानसिक शक्तियों का क्षीण होना तो निश्चित है।

कारण- हमारी इच्छाशक्ति क्षुद्र और दुर्बल होगी, तो मानसिक शक्ति भी वैसी होगी।

विकल्प

- (A) कथन ग़लत है, किंतु कारण सही है।
- (B) कथन और कारण दोनों ही ग़लत हैं।
- (C) दोनों सही हैं, क्योंकि कारण कथन की सही व्याख्या करता है।
- (D) दोनों सही हैं, किंतु कारण कथन की सही व्याख्या नहीं करता है।

(घ) (i) असफल व्यक्ति दूसरों से क्या अपेक्षा रखता है?

(1×2)

(ii) एमर्सन ने दृढ़ इच्छाशक्ति के बारे में क्या कहा है?

(ङ.) गद्यांश में उल्लेखित बरसाती बादल के टुकड़े से क्या तात्पर्य है?

(2)

2. निम्नलिखित काव्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प का चयन करके लिखिए, एवं दिए गये प्रश्नों का उत्तर लिखिए—

कूड़े के ढेर से
कुछ चुनते हुए बच्चे को देख
एक चित्रकार ने
करुणामय में चित्र बना डाला।
कवि ने
एक मार्मिक रचना रच डाली।
एक कहानीकार ने
'उसी बच्चे' पर
कालजयी
कहानी कही।
जनता ने
प्रदर्शनी में चित्र,
मंच पर कविता
और
पत्रिका में छपी
कहानी को खूब सराहा।
पर बच्चे ने चित्र,
कविता और कहानी से क्या पाया?

वो अब भी लगा है.....

वहीं कूड़े के ढेर में कुछ खोजने में।

उसे कुछ मिला, नहीं!!!

(क) प्रस्तुत काव्यांश का केंद्रीय विषय क्या है?

(1)

(A) प्रदर्शन की महत्ता।

(B) जनता की रुचि-अरुचि।

(C) साहित्य की उत्कृष्ट रचना।

(D) बालश्रम में व्यतीत बचपन।

(ख) अंत में बच्चे की स्थिति में क्या परिवर्तन आया?

(1)

(A) बच्चे का भविष्य सुधर गया।

(B) बच्चे के काम की सराहना हुई।

(C) बच्चे को काम से छुटकारा मिल गया।

(D) बच्चे की स्थिति में कोई परिवर्तन नहीं आया।

(ग) कथन और कारण को पढ़कर उपयुक्त विकल्प चुनकर लिखिए:-

(1)

कथन- बच्चा कूड़े के ढेर में कुछ खोज रहा था।

कारण- उसे वहाँ बहुत कुछ मिला था।

विकल्प

(A) कथन ग़लत है, किंतु कारण सही है।

(B) कथन सही है, किंतु कारण ग़लत है।

(C) दोनों सही हैं, क्योंकि कारण कथन की सही व्याख्या करता है।

(D) दोनों सही हैं, किंतु कारण कथन की सही व्याख्या नहीं करता है।

(घ) (i) बच्चे की दशा को देखकर कवि ने किस प्रकार की रचना की?

(1×2=2)

(ii) प्रस्तुत काव्यांश में किस बच्चे की बात कही गयी है?

(ङ.) चित्रकार, कहानीकार तथा कवि के कार्य पर जनता ने क्या प्रतिक्रिया व्यक्त की?

(2)

खंड-ख (व्यावहारिक व्याकरण)

3. रचना के आधार पर वाक्यभेद से दिए गये प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए:-

(1×4=4)

(क) तुम घर गये और वह रोने लगी।

(सरल वाक्य में परिवर्तित करके लिखिए।)

(ख) जब तुम जाओगे तभी मैं जाऊँगा।

(आश्रित उपवाक्य छाँटकर उसके भेद का नाम लिखिए।)

(ग) वह लड़का, जो पेड़ के पास खड़ा है, मेरा मित्र है। (सरल वाक्य में परिवर्तित करके लिखिए।)

(घ) लाभ वाला काम करो। इस वाक्य का मिश्र वाक्य क्या होगा?

(ङ.) बालक रोते-रोते चुप हो गया। इस वाक्य का संयुक्त वाक्य क्या होगा?

4. 'वाच्य' पर आधारित दिए गये प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए:-

(1×4=4)

(क) उसके द्वारा उछलकर पतंग पकड़ लिया गया।

(कर्तृवाच्य में बदलकर लिखिए।)

(ख) लड़कियों के द्वारा बाज़ार जाया जाता है।

(वाच्य के भेद का नाम लिखिए।)

(ग) सफ़र का वक्त काटने के लिए ही उन्होंने खीरे खरीदे होंगे।

(कर्मवाच्य में बदलकर लिखिए।)

- (घ) मैं इस गरमी में सो नहीं सकता। (भाववाच्य में बदलकर लिखिए।)
 (ङ.) अध्यापक के द्वारा विद्यालय में हिंदी पढ़ाया जाता है। (वाच्य के भेद का नाम लिखिए।)

5. 'पद-परिचय' पर आधारित दिए गये प्रश्नों में से किन्हीं चार प्रश्नों के रेखांकित पदों का व्याकरणिक परिचय लिखिए:- (1×4=4)

- (क) यह पुस्तक निगम की है।
 (ख) रमेश आज दिल्ली जाएगा।
 (ग) माँ ने नौकर से सब्जी मँगवाई।
 (घ) बाज़ार से कुछ सामान ले आओ।
 (ङ.) माँ भारती को बारंबार नमस्कार है।

6. 'अलंकार' पर आधारित दिए गये प्रश्नों में से किन्हीं चार प्रश्नों में प्रयुक्त अलंकार का भेद लिखिए:- (1×4=4)

- (क) तब तो बहता समय शिला-सा जम जाएगा।
 (ख) देख लो साकेत नगरी है यही। स्वर्ग से मिलने गगन में जा रही।
 (ग) गुलाब खिलकर बोला, "मैं आग का गोला नहीं प्रीत की कविता हूँ।"
 (घ) कहती हुई यों उत्तरा के नेत्र जल से भर गये। हिमकणों से पूर्ण मानो हो गये पंकज नए।
 (ङ.) राम नाम अवलंब बिनु, परमारथ की आस। बरसत बारिद बूँद गहि, चाहत चढ़न आकास।

खंड-ग (पाठ्यपुस्तक एवं पूरक पाठ्यपुस्तक)

7. निम्नलिखित गद्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प को चुनकर लिखिए:- (1×5=5)

हालदार साहब को हर पंद्रहवें दिन कंपनी के काम के सिलसिले में उस कस्बे से गुज़रना पड़ता था। कस्बा बहुत बड़ा नहीं था। जिसे पक्का मकान कहा जा सके वैसे कुछ ही मकान और जिसे बाज़ार कहा जा सके वैसे एक ही बाज़ार था। कस्बे में एक लड़कों का स्कूल, एक लड़कियों का स्कूल, एक सीमेंट का छोटा-सा कारखाना, दो ओपन एयर सिनेमाघर और एक ठो नगरपालिका भी थी। नगरपालिका थी तो कुछ-न-कुछ कार्य करती भी रहती थी। कभी कोई सड़क पक्की करवा दी, कभी कुछ पेशाबघर बनवा दिए, कभी कबूतरों की छतरी बनवा दी, तो कभी कवि सम्मेलन करवा दिया। इसी नगरपालिका के किसी उत्साही बोर्ड या प्रशासनिक अधिकारी ने एक बार 'शहर' के मुख्य बाज़ार के मुख्य चौराहे पर नेताजी सुभाषचंद्र बोस की एक संगमरमर की प्रतिमा लगवा दी।

(क) हालदार साहब कस्बे के किस भाग से गुज़रते थे?

- (A) जहाँ गांधीजी की प्रतिमा स्थापित थी।
 (B) जहाँ नेताजी की प्रतिमा स्थापित थी।
 (C) जहाँ नगरपालिका स्थित थी।
 (D) जहाँ चश्मों की दुकान थी।

(ख) कस्बे की स्थिति कैसी थी?

- (A) वहाँ मध्यम प्रकार के पक्के मकान, और एक छोटा-सा बाज़ार था।
- (B) वहाँ बड़े-बड़े उच्च गुणवत्ता वाले मकान और बाज़ार थे।
- (C) कस्बे में बड़े-बड़े कॉलेज़ और कई कारखाने थे।
- (D) वहाँ के सभी लोग सरकारी कर्मचारी थे।

(ग) कथन और कारण को पढ़कर उपयुक्त विकल्प चुनकर लिखिए:-

कथन- नगरपालिका स्कूल और सिनेमाघर का निर्माण करवाती रहती थी।

कारण- नगरपालिका का काम कस्बे की देखभाल करना था।

विकल्प

- (A) कथन ग़लत है, किंतु कारण सही है।
- (B) कथन और कारण दोनों ही ग़लत हैं।
- (C) दोनों सही हैं, क्योंकि कारण कथन की सही व्याख्या करता है।
- (D) दोनों सही हैं, किंतु कारण कथन की सही व्याख्या नहीं करता है।

(घ) नेताजी की प्रतिमा कहाँ लगवाई गयी थी?

- (A) शहर के बीचो-बीच में।
- (B) शहर के एक स्कूल में।
- (C) शहर के बाहरी क्षेत्र में।
- (D) शहर के मुख्य बाज़ार के चौराहे पर।

(ड.) हालदार साहब हर पंद्रहवें दिन कस्बे से क्यों गुज़रते थे?

- (A) कस्बे की निगरानी करने के लिए।
- (B) कस्बे में स्थित चौराहे पर घूमने के लिए।
- (C) कंपनी के काम के सिलसिले में जाने के लिए।
- (D) कस्बे में लगी नेताजी की मूर्ति को देखने के लिए।

8. निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25 से 30 शब्दों में लिखिए:- (2×3=6)

(क) मूर्ति बनाने के लिए स्थानीय कलाकार को ही अवसर देने का फैसला क्यों लिया गया होगा? 'नेताजी का चश्मा' अध्याय के आधार पर अपने विचार लिखिए।

(ख) बालगोबिन भगत के गंगा-स्नान का मुख्य उद्देश्य क्या होता था? वे गंगा-स्नान के लिए आते-जाते किसी का सहारा नहीं लेते थे। इससे उनके किस गुण की अभिव्यक्ति होती है। पठित अध्याय के आधार पर अपना उत्तर लिखिए।

(ग) नवाब साहब का खीरा खाने का ढंग पारंपरिक ढंग से किस तरह अलग था? स्पष्ट कीजिए।

(घ) सिद्ध कीजिए कि कबीर में बालगोबिन भगत की अटूट आस्था थी?

9. निम्नलिखित काव्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प को चुनकर लिखिए:- (1×5=5)

हमारैं हरि हारिल की लकरी।

मन क्रम बचन नंद-नंदन उर, यह दृढ़ करि पकरी।

जागत सोवत स्वप्न दिवस-निसि, कान्ह-कान्ह जक री।

सुनत जोग लागत है ऐसौ, ज्यों करुई ककरी।

सु तौ ब्याधि हमकों लै आए, देखी सुनी न करी।

यह तौ 'सूर' तिनहिं लै सौंपौ, जिनके मन चकरी।

(क) 'हमारें हरि हारिल की लकरी' पंक्ति में 'हारिल की लकरी' किसे कहा गया है?

- (A) कृष्ण को।
- (B) उद्धव को।
- (C) गोपियों को।
- (D) सूरदास को।

(ख) 'तिनहिं लै सौंपौ' पंक्ति में किसकी ओर संकेत किया गया है?

- (A) जिनका मन स्थिर है।
- (B) जिनका मन चंचल है।
- (C) जो योग का संदेश देते हैं।
- (D) जो कड़वी ककड़ी खाते हैं।

(ग) कथन और कारण को पढ़कर उपयुक्त विकल्प चुनकर लिखिए:-

कथन- गोपियों को योग की शिक्षा समझ में नहीं आती।

कारण- उनके हृदय में कृष्ण बसे हुए थे।

विकल्प

- (A) कथन गलत है, किंतु कारण सही है।
- (B) कथन और कारण दोनों ही गलत हैं।
- (C) दोनों सही हैं, क्योंकि कारण कथन की सही व्याख्या करता है।
- (D) दोनों सही हैं, किंतु कारण कथन की सही व्याख्या नहीं करता है।

(घ) योग का नाम सुनते ही गोपियों को ऐसा लगता है, जैसे-

- (A) चींटी गुड़ से लिपट गयी हो।
- (B) कृष्ण उनके पास आ गये हों।
- (C) कानों में मधुर रस घुल गया हो।
- (D) उनके मुँह में कड़वी ककड़ी चली गयी हो।

(ङ.) 'देखी सुनी न करी' पंक्ति में गोपियाँ कहना चाहती हैं कि उन्होंने-

- (A) उद्धव के बारे में न तो कभी सुना है, और न ही उसे देखा है।
- (B) योग के बारे में न तो कभी सुना है, न देखा है और न ही किया है।
- (C) कड़वी ककड़ी के बारे में न तो कभी सुना है, और न ही उसे देखा है।
- (D) उद्धव को बताना चाहा कि वे देखती, सुनती तो हैं, पर करती नहीं हैं।

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

(क) परशुराम के क्रोध करने पर राम की जो प्रतिक्रिया हुई, उसके आधार पर उनकी विशेषता अपने शब्दों में लिखिए।

(ख) आत्मकथा लिखने के लिए किन गुणों की आवश्यकता होती है? कवि के लिए यह कार्य कठिन क्यों था? विचार करके लिखिए।

(ग) 'उत्साह' कविता में कवि ने बादल के किन रूपों की चर्चा की है? स्पष्ट करते हुए उत्तर लिखिए।

- (घ) 'अट नहीं रही है' कविता के आधार पर कवि निराला की काव्यगत विशेषता लिखिए।
11. निम्नलिखित प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर लगभग 50 से 60 शब्दों में लिखिए:- (4×2=8)
- (क) 'माता का अँचल' अध्याय में लेखक ने तत्कालीन समाज की पारिवारिक परिवेश का जो चित्रण किया है, उसे अपने शब्दों में लिखिए।
- (ख) मनुष्य अपनी सुख-सुविधाओं के लिए प्रकृति को अत्यधिक नुकसान पहुँचा रहा है। इसे रोकने में आपकी क्या भूमिका होनी चाहिए? 'साना-साना हाथ जोड़ि...' पाठ के आधार पर लिखिए।
- (ग) लेखिका ने पहाड़ी श्रमिक महिलाओं के विषय में कहा है कि "कितना कम लेकर ये, समाज को कितना अधिक वापस लौटा देती हैं।" 'साना-साना हाथ जोड़ि...' अध्याय के इस कथन के आधार पर राष्ट्र के विकास में महिलाओं की भूमिका का उल्लेख कीजिए।

खंड- घ (रचनात्मक-लेखन)

12. निम्नलिखित विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनुच्छेद लिखिए:- (6×1=6)
- (क) शिक्षकदिवस
संकेत बिंदु- भूमिका, शिक्षकदिवस से तात्पर्य, शिक्षकदिवस की शुरुआत, शिक्षकदिवस की प्रासंगिकता, उपसंहार।
- (ख) मीडिया का वर्चस्व
संकेत बिंदु- भूमिका, मीडिया की उपयोगिता, रोजगार के अवसर, मीडिया के प्रशंसनीय कार्य, मीडिया की नकारात्मक भूमिका, उपसंहार।
- (ग) जल-संरक्षण: आज की आवश्यकता
संकेत बिंदु- भूमिका, जल-प्रदूषण के कारण, जल-संरक्षण कितना ज़रूरी?, जल-संरक्षण के उपाय, उपसंहार।
13. आपके क्षेत्र में डेंगू फैल रहा है। स्वास्थ्य अधिकारी को पत्र लिखकर उपयुक्त चिकित्सा व्यवस्था उपलब्ध कराने के लिए लगभग 100 शब्दों में पत्र लिखिए। (5×1=5)

अथवा

अपने मित्र को महानगरीय जीवन की सुखद और दुखद स्थिति का वर्णन करते हुए लगभग 100 शब्दों में पत्र लिखिए।

14. दिल्ली एयरफोर्स में पायलट की आवश्यकता है। 'अभिव्यक्ति पत्रिका' में इस पद हेतु विज्ञापन प्रकाशित किया गया है। आप इस पद के लिए आवेदन करना चाहते हैं। इसके लिए आप अपना संक्षिप्त स्ववृत्त लगभग 80 शब्दों में लिखिए। (5×1=5)

अथवा

भारत संचार निगम लिमिटेड को अपने खराब टेलीफोन की मरम्मत के लिए लगभग 80 शब्दों में ई-मेल लिखिए।

15. आपके शहर में एक नया वाटर पार्क खुला है, जिसमें पानी के खेल, रोमांचक झूलों, मनोरंजक खेलों और खान-पान की व्यवस्था है। इसके लिए एक विज्ञापन का आलेख लगभग 40 शब्दों में लिखिए। (4×1=4)

अथवा

आपके क्षेत्र में जन्माष्टमी के अवसर पर श्री कृष्णलीला का आयोजन होने जा रहा है। इस अवसर पर लगभग 40 शब्दों में जन्माष्टमी के आयोजकों को शुभकामना संदेश लिखिए।

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

PERIODIC TEST – II

SESSION: 2024-2025

CLASS: X

SUBJECT: MATHEMATICS

MAXIMUM MARKS: 80

TIME: 3 HOURS

General Instructions:

1. The question paper consists of 38 questions of 6 printed pages and divided into 5 sections A,B,C,D and E.
2. All questions are compulsory.
3. Section-A comprises of 20 MCQ questions of 1 mark each.
4. Section-B comprises of 5 questions of 2 marks each. Internal choice has been provided in 2 questions.
5. Section-C comprises of 6 questions of 3 marks each. Internal choice has been provided in 2 questions.
6. Section- D comprises of 4 questions of 5 marks each. Internal choice has been provided in 2 questions.
7. Section- E comprises of 3 Case Study based questions of 4 marks each.

SECTION -A

- 1 The value of p, for which (-4) is a zero of the polynomial : $x^2 - 2x - (7p + 3)$ is 1
(a) 3 (b) 2 (c) 4 (d) -2
- 2 If p and q are prime numbers, then the HCF of p^3q^2 and p^2q is 1
(a) p^3q^2 (b) p^2q (c) p^2q^2 (d) pq
- 3 If one root of the polynomial $f(x)=5x^2+13x+m$ is reciprocal of other, then the value of m is 1
(a) 6 (b) 0 (c) 5 (d) $1/5$
- 4 If $HCF(a,b)=12$ and $a \times b=1800$, then $LCM(a,b)=$ 1
(a) 200 (b) 300 (c) 150 (d) 100
- 5 The distance between the points $(a\cos x + b\sin x, 0)$ and $(0, a\sin x - b\cos x)$ is 1
(a) $a^2 + b^2$ (b) $a^2 - b^2$ (c) $\sqrt{a^2 + b^2}$ (d) $\sqrt{a^2 - b^2}$
- 6 Two equilateral triangles are always 1
(a) Congruent (b) similar but may not be Congruent
(c) neither Congruent nor similar (d) both Congruent and similar
- 7 If the points A(4,3) and B(x,5) are on the circle with centre O(2,3), then the value of x is 1
(a) 0 (b) 1 (c) 2 (d) 3
- 8 The value of k for which the system of equations $x+y-5=0$ and $2x+ky=3$, has no solution, is 1
(a) -2 (b) 3 (c) 4 (d) 2
- 9 In $\triangle ABC$, D and E are the points on the sides AB and AC respectively such that $DE \parallel BC$. If $AD=4x-3$, $AE=8x-7$, $BD=3x-1$ and $CE=5x-3$, then the value of x is 1
(a) $1/2$ (b) 4 (c) 1 (d) $2/3$
- 10 The pair of linear equations $x=5$ and $x=7$ has 1
(a) a unique solution (b) no solution
(c) Infinitely many solutions (d) only solution (5,7)
- 11 A girl calculates that the probability of her winning the first prize in a lottery is 0.08. If 6000 tickets are sold, how many tickets has she bought? 1
(a) 40 (b) 240 (c) 480 (d) 750
- 12 Graphically, the pair of equations $6x-3y+10=0$; $2x-y+9=0$ represents two lines which are 1
(a) Intersecting at exactly one point (b) intersecting at exactly two point (c) coincident
(d) parallel
- 13 If $\sec y + \tan y = x$, the value of $\sec y$ is 1
(a) $\frac{1}{2} \left(x - \frac{1}{x} \right)$ (b) $\frac{(x^2-1)}{x^2+1}$ (c) $\frac{1}{2} \left(x + \frac{1}{x} \right)$ (d) $\left(x - \frac{1}{x} \right)$
- 14 A card is selected from a deck of 52 cards. The probability of being a red face card is 1
(a) $3/26$ (b) $4/9$ (c) $1/9$ (d) $5/9$

- 15 Given that $m+2$ (where m is a positive integer) is a zero of the polynomial $q(x)=x^2 - mx - 6$. Which of these is the value of m ? 1
 (a) 4 (b) 3 (c) 2 (d) 1
- 16 $\cos^4 A - \sin^4 A$ is equal to 1
 (a) $2 \cos^2 A + 1$ (b) $2 \cos^2 A - 1$ (c) $\cos^2 A$ (d) $-\cos A$
- 17 Two coins are tossed simultaneously. The probability of getting atmost one head is 1
 (a) 0.25 (b) 0.5 (c) 0.75 (d) 1
- 18 $(\operatorname{cosec} x - \sin x)(\sec x - \cos x)(\tan x + \cot x)$ is equal to : 1
 (a) 0 (b) 1 (c) -1 (d) 2

Directions: In the following questions (Q.19 & Q.20), A statement of Assertion (A) is followed by a statement of Reason(R).Mark the correct choice as:

- (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.

- 19 **Assertion (A):** $\sqrt{3}$ is an irrational number. 1

Reason (R): If p be a prime ,then \sqrt{p} is an irrational number.

- 20 **Assertion (A):** The point $(-1,6)$ divides the line segment joining the points $(-3,10)$ and $(6,-8)$ in the ratio 2:7 internally. 1

Reason (R): Mid point of line segment PQ whose co-ordinate are $P(x_1, y_1)$ and $Q(x_2, y_2)$ is given by $R\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$.

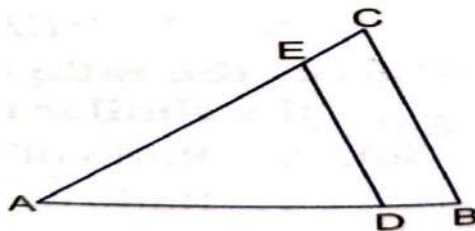
SECTION -B

- 21 Two different dice are thrown together. Find the probability that the numbers obtained is a doublet of odd numbers. 2
- 22 If m and n are zeros of polynomial $p(x)=x^2 - 5x + 6$, Then find the value of $(m+n-3mn)$. 2

OR

If one of the zeros of the quadratic polynomial $f(x)=4x^2 - 8kx - 9$ is equal in magnitude but opposite in sign of the other, *find the value of k .*

- 23 In the given figure, $DE \parallel BC$. 2
 If $AD=x$, $DB=x-2$, $AE=x+2$ and $EC=x-1$, find the value of x .



- 24 A card is drawn at random from a pack of 52 playing cards. Find the probability that the card drawn is neither a red card nor a black king. 2
- 25 If $\sin x = \cos x$, then find the value of $2 \tan x + \cos^2 x$. 2

OR

If $x = a \cos z$, $y = b \sin z$ then find the value of $b^2 x^2 + a^2 y^2 - a^2 b^2$.

SECTION C

- 26 If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - p(x+1) - c$, show that $(\alpha+1)(\beta+1) = 1 - c$. 3
- 27 Find the values of y for which the distance between the points $P(2, -3)$ and $Q(10, y)$ is 10 units. 3

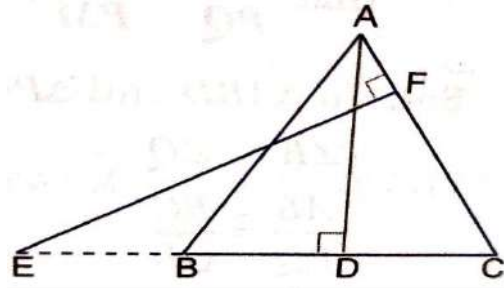
OR

If A and B are two points having coordinates $(-2, -2)$ and $(2, -4)$ respectively, find the coordinates of P such that $AP = \frac{3}{7} AB$

- 28 If $3\sin x + 5\cos x = 5$, prove that $5\sin x - 3\cos x = \pm 3$. 3
- 29 Prove that $(\sqrt{5} + \sqrt{3})$ is irrational. 3
- 30 Find the probability that a number selected at random from the numbers 1, 2, 3, ..., 35 is a 3
- (i) Prime number (ii) Multiple of 7 (iii) Multiple of 3 or 5
- 31 ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at the point O. 3
- Show that $\frac{AO}{BO} = \frac{CO}{DO}$

OR

In the given figure, $AB = AC$. E is a point on CB produced. If AD is perpendicular to BC and EF perpendicular to AC, prove that $\triangle ABD$ is similar to $\triangle ECF$.



SECTION -D

- 32 Find the largest number which on dividing 1251, 9377 and 15628 leaves remainders 1, 2 and 3 respectively. 5
- 33 If $\tan A = n \tan B$ and $\sin A = m \sin B$, prove that $\cos^2 A = \frac{m^2 - 1}{n^2 - 1}$. 5

OR

Prove that: $\frac{\tan x}{1 - \cot x} + \frac{\cot x}{1 - \tan x} = 1 + \sec x \cdot \operatorname{cosec} x$

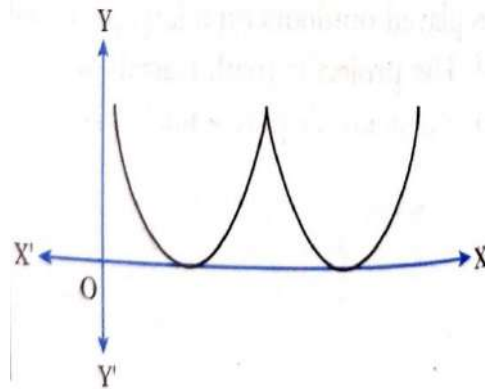
- 34 If AD and PM are medians of triangles ABC and PQR respectively, where $\triangle ABC$ is similar to $\triangle PQR$, prove that $\frac{AB}{PQ} = \frac{AD}{PM}$. 5
- 35 A boat goes 30 km upstream and 44 km downstream in 10 hours. In 13 hours, it can go 40 km upstream and 55 km downstream. Determine the speed of the stream and that of the boat in still water. 5

OR

Draw the graph of $2x + y = 6$ and $2x - y + 2 = 0$. Shade the region bounded by these lines and x-axis. Find the area of the shaded region.

SECTION -E (CASE STUDY BASED QUESTIONS)

- 36 The wall of a room is decorated with beautiful garlands, each garland forming a parabola. 1+1+2



- (a) What type of polynomial does a parabola represent?
- (b) Find a quadratic polynomial with the sum and product of its zeroes as -1 and -2.
- (c) If one of the zeroes of the quadratic polynomial $(k - 2)x^2 - 2x - 5$ is -1, then find the value of k.

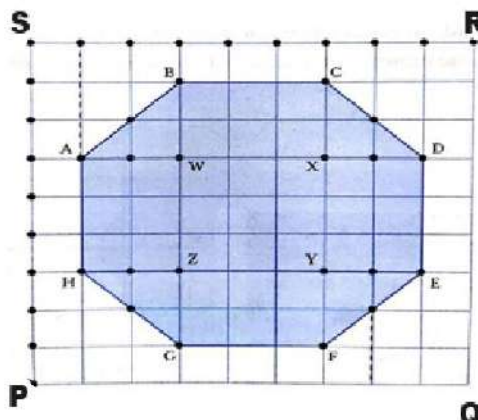
OR

- (c) If p, q are the zeros of the polynomial $f(x) = x^2 - 7x + 12$, then find the value of $\frac{1}{p} + \frac{1}{q}$.

37

The children of a school prepared a dance item for Republic Day parade for which they were asked to form a rectangle by standing at a fixed distance, taken as one unit. Some children, then formed a pattern inside the rectangle.

1+1+2



- (a) If P is considered as the origin, then find the coordinate of B.
 (b) Find the distance between the children standing at H and G.
 (c) Find the coordinate of the point that divides the line segment joining the points A and D in the ratio 2:3 internally.

OR

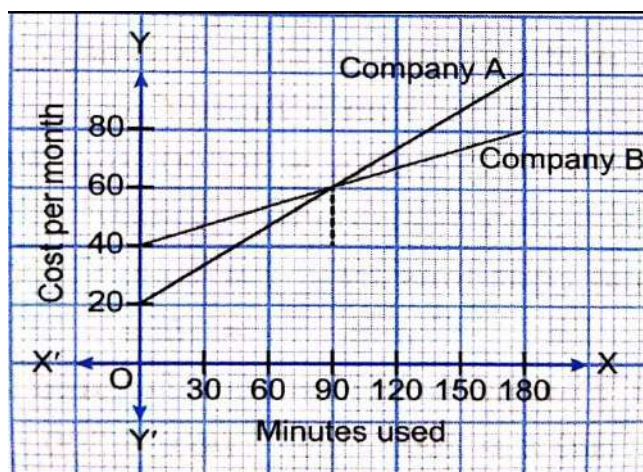
(c) If a point (x,y) is equidistant from $Z(3,3)$ and $X(6,6)$, then find a relation between x and y .

38

A man is trying to choose between two phone plans. The first plan of company A, cost Rs20 per month, with calls costing an additional 25 paise per minute. The second plan of company B charges Rs 40 per month, but calls cost 8 paise per minute. These two situations are shown below which represent linear equations.

1+1+2

The total cost for the two companies are given by $y=0.25x+20$ and $y=0.08x+40$, where x is the minutes used and y is the total cost per month.



- (a) If a person takes first plan and calls for 90 minutes in a month, then how much amount he will have to pay whose cost for a month is given by $y=0.25x+20$?
 (b) Another person takes second plan and also calls for 90 minutes in a month, then find the amount which he has to pay when total cost is given by $y=0.08x+40$.
 (c) Find the solution of the system of linear equations $x+2y+1=0$ and $2x-3y=12$

OR

(c) If the system of pair of linear equations $kx+2y=5$, $3x+y=1$ has a unique solution, then find the value of k .

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

PERIODIC TEST II

SESSION 2024-2025

CLASS: X

MAXIMUM MARKS: 80

SUBJECT: COMMUNICATIVE SANSKRIT (119)

TIME: 3 HOURS

सामान्य-निर्देशाः -

1. कृपया सम्यक्तया परीक्षणं कुर्वन्तु यत् अस्मिन् प्रश्नपत्रे 8 पृष्ठानि मुद्रितानि सन्ति ।
2. कृपया सम्यक्तया परीक्षणं कुर्वन्तु यत् अस्मिन् प्रश्नपत्रे 18 प्रश्नाः सन्ति ।
3. अस्मिन् प्रश्नपत्रे चत्वारः खण्डाः सन्ति ।
4. प्रत्येकं खण्डम् अधिकृत्य उत्तराणि एकस्मिन् स्थाने क्रमेण लेखनीयानि ।
5. उत्तरलेखनात् पूर्वं प्रश्नस्य क्रमाङ्कः अवश्यं लेखनीयः ।
6. प्रश्नस्य क्रमाङ्कः प्रश्नपत्रानुसारम् एव लेखनीयः ।
7. सर्वेषां प्रश्नानाम् उत्तराणि संस्कृतेन लेखनीयानि ।
8. प्रश्नानां निर्देशाः ध्यानेन अवश्यं पठनीयाः ।

प्रश्नपत्र स्वरूपम्-

खण्डः 'क'	:	अपठितावबोधनम्	:	प्रश्नसंख्या - 1	10	अङ्काः
खण्डः 'ख'	:	रचनात्मककार्यम्	:	प्रश्नसंख्या - 2 - 4	15	अङ्काः
खण्डः 'ग'	:	अनुप्रयुक्तव्याकरणम्	:	प्रश्नसंख्या - 5 - 11	25	अङ्काः
खण्डः 'घ'	:	पठितावबोधनम्	:	प्रश्नसंख्या - 12 - 18	30	अङ्काः
खण्डः - 'क' अपठित-अवबोधनम् (10 अङ्काः)						

अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत-

10

प्रातःकाले ब्रह्ममुहूर्ते उत्थाय जनाः भ्रमणस्य आनन्दं लभन्ते । अतिमनोहारी प्रातः वेला नित्यं स्वयमेव आगच्छति । प्रातःकाले मनः एकाग्रं भवति । शुद्धवायुः सर्वत्र वहति । रात्रेः निःशब्दता समाप्यते । पक्षिणां मधुररवः सर्वत्र श्रूयते । उषाकाले पूर्वस्यां दिशि लालिमा प्रस्फुटति । प्रकृतिः स्वमोहकं रूपं प्रदर्शयति । सरोवरेषु कमलानि विकसन्ति । तत्र भ्रमराः गुञ्जन्ति । प्रातःकाले उत्थाय भ्रमणं वयोवृद्धानां कृते समुचितः व्यायामः भवति । प्रातः भ्रमणेन मनसि सुसङ्कल्पाः आयान्ति । अतः अस्माभिः प्रतिदिनं स्वच्छवायौ बहिः गत्वा प्रातः भ्रमणं करणीयम् ।

अ) एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)

1x2=2

(i) प्रातःकाले किम् एकाग्रं भवति ?

(ii) प्रातः भ्रमणे मनसि के आयान्ति ?

(iii) प्रकृतिः कीदृशं रूपं प्रदर्शयति ?

आ) पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)

2x2=4

(i) कदा जनाः भ्रमणस्य आनन्दं लभन्ते ?

(ii) प्रातः भ्रमणं केषां कृते समुचितः व्यायामः भवति ?

(iii) प्रतिदिनं कुत्र गत्वा भ्रमणं करणीयम् ?

इ) अस्य अनुच्छेदस्य कृते उपयुक्तं शीर्षकं संस्कृतेन लिखत ।

(1×1=1)

ई) यथानिर्देशम् उत्तरत- (केवलं प्रश्नत्रयम्)

1×3=3

(i) 'प्रातः शुद्धवायुः सर्वत्र वहति' अस्मिन् वाक्ये 'वहति' इति क्रियापदस्य कर्तृपदं किम् ?

(क) प्रातः (ख) शुद्धवायुः (ग) सर्वत्र (घ) वहति

(ii) 'अतिमनोहारी प्रातःवेला नित्यं स्वयम् एव आगच्छति' अस्मिन् वाक्ये किं विशेषणपदं प्रयुक्तम्?

(क) अतिमनोहारी (ख) प्रातः वेला (ग) स्वयम् (घ) नित्यम्

(iii) 'खगाः' इति पदस्य अर्थे गद्यांशे किं पर्यायपदं प्रयुक्तम् अस्ति ?

(क) लालिमा (ख) एकाग्रम् (ग) पक्षिणः (घ) सर्वत्र

(iv) 'दिनस्य' इति पदस्य कृते गद्यांशे किम् विलोमपदं प्रयुक्तम्?

(क) उत्थाय (ख) दिशि (ग) वहति (घ) रात्रेः

खण्डः - 'ख' रचनात्मक-कार्यम् (15 अङ्काः)

2. भवतः नाम सुरेशः । भवान् ग्रोवर-छात्रावासे पुरलियानगरे वसति । शैक्षिकयात्रार्थं नवदेहलीं गतवान् । (½×10 = 5)
यात्रायाः स्वानुभवं वर्णयन् मातरं प्रति लिखितं पत्रं मञ्जूषातः पदानि चित्वा पूरयत ।

ग्रोवर-छात्रावासः

पुरलियातः

दिनाङ्कः ।

श्रद्धेये मातृचरणे,

(i)..... प्रणामाः ।

भवत्याः आशीर्वादैः सर्वे वयं इलाहाबादतः रेलयानेन सकुशलं दिल्लीनगरं समागच्छाम । दिल्लीनगरं नूनं लघुभारतम् इव आसीत् । दिल्लीनगरे अस्माकं वासः गौतमनगरस्य समीपे एकस्मिन् यात्रिनिवासे आसीत् । प्रातःकाले वयं सर्वप्रथमं छत्तरपुरमन्दिरम् अगच्छाम । (ii)दुर्गादेव्याः दर्शनं कृत्वा वयं धन्याः जाताः । अनन्तरं मुगलशासकेन कुतुबुद्दीनेन निर्मितं (iii)दर्शनम् अस्मभ्यं ज्ञानप्रदमासीत् । एवमेव वयं बिरलामन्दिरं, अक्षरधाम-मन्दिरं च (iv) । यात्रायाः अन्तिमे चरणे वयं (v)अगच्छाम । अस्मात् दुर्गात् एव (vi) प्रधानमन्त्री जनान् सम्बोधयति । तस्य पुरतः एव (vii) इति नामकं स्थानं अस्ति । तत्र (viii) दृष्ट्वा वयम् आश्चर्यचकिताः जाताः । शेषं पुनः लेखिष्ये ।

पितृचरणयोः मे (ix)कथनीयाः ।

भवत्याः स्नेहमयः पुत्रः,

(x) ।

मञ्जूषा - जनसङ्कुलम्, स्वतन्त्रतादिवससमारोहे, प्रणामाः, कुतुबमीनारस्य, भगवत्याः, सुरेशः, अपश्याम, सादरम्, रक्तदुर्गम्, चाँदनी-चौक ।

3. प्रदत्तं चित्रं दृष्ट्वा मञ्जूषायां प्रदत्तशब्दानां सहायतया पञ्चवाक्यानि संस्कृतेन लिखत-

1x5=5



मञ्जूषा = पुस्तकालयः, विविधानि, पुस्तकानि, छात्राः, पठन्ति, तिष्ठति, आसन्दः, उत्पीठिकाः, पत्रिका, सोपानम्, दूरभाषः, लिखति, आनयति, पुस्तकालयाध्यक्षा, ध्यानेन, बालकः ।

अथवा

‘मञ्जूषाप्रदत्तशब्दानां साहाय्येन निम्नलिखितं विषयम् अधिकृत्य पञ्चभिः संस्कृतवाक्यैः एकम् अनुच्छेदं लिखत-

‘साक्षरतायाः लाभः’

मञ्जूषा – अक्षरज्ञानं, जनानाम्, स्वहस्ताक्षरम्, आवेदनपत्रम्, नियुक्तिपत्रम्, राशिपत्रम्, पठितुं शक्यते, आदर्शशिक्षाग्रहणे, ग्रन्थानां पठने, सर्वकार-समर्थितः, जनान्दोलनं वर्तते ।

4. निम्नलिखित-कथायाः रिक्तस्थानानि मञ्जूषायां दत्तानां शब्दानां सहायतया सम्पूरयत ।

1/2x10=5

धर्मपुरग्रामे एकः (i) _____ आसीत् । तस्य चत्वारः ii) _____ आसन् । ते अतीव अलसाः आसन् । एकदा सः कृषकः (iii) _____ मरणासन्नः अभवत् । तदा सः स्वपुत्रान् अकथयत् – मम क्षेत्रे सुगुप्तं (iv) _____ वर्तते । मम मरणात् अनन्तरं (v) _____ खनित्वा गुप्तधनं प्राप्नुयुः । निजपितुः मृत्योः पश्चात् सर्वे (vi) _____ क्षेत्रम् अकर्षन् । परं गुप्तधनं न (vii) _____ । निजमातुः प्रेरणया ते क्षेत्रे viii) _____ अवपन् । परिणामस्वरूपेण (ix) _____ धान्यम् अभवत् । उचितमेव उक्तम् यत् (x) _____ सिद्धिः भवति ।

मञ्जूषा:- परिश्रमेण, कृषकः, प्रभूतं, तीव्रज्वरेण, लब्धम्, क्षेत्रं, धनं, मिलित्वा, बीजानि, पुत्राः

अथवा

अधोलिखित-संवादं मञ्जूषायां प्रदत्तपदानां सहायतया पूरयत –

1x5=5

विनोदः - अभिषेक! श्वः भवान् कुत्र गमिष्यति ?

अभिषेकः - (i) _____ ।

विनोदः - तत्र किमपि कार्यं वर्तते ? अथवा भ्रमणार्थमेव गच्छति?

अभिषेकः - (ii) _____ ।

विनोदः - जयपुरे कुत्र कुत्र भ्रमणस्य कार्यक्रमः अस्ति ?

अभिषेकः - (iii) _____ ।

विनोदः - तत्र नहरगढ-दुर्गमपि पश्यतु । तदपि दर्शनीयम् अस्ति ।

अभिषेकः - (iv) _____ ।

विनोदः - साधु मित्र ! इदानीम् अहं गच्छामि । पुनर्मिलामः ।

(v) _____ ।

मञ्जूषा -1. कार्यं नास्ति, अहं तु मित्रैः सह भ्रमणार्थं गच्छामि ।

2. यदि समयः अवशिष्टः भविष्यति तर्हि निश्चयेन तत्र गमिष्यामः ।

3. आम्, अन्तरम् यात्रानुभवस्य विषये विस्तरेण वार्तालापं करिष्यावः ।

4. अहं जयपुरं गमिष्यामि ।

5. वयं तत्र आमेरदुर्गं, जयगढदुर्गं च द्रक्ष्यामः ।

खण्डः - 'ग' अनुप्रयुक्त-व्याकरणम् (25 अङ्काः)

5. अधोलिखितवाक्यानां रेखाङ्कितपदेषु सन्धिः / छेदं वा क्रियताम् । (केवलं प्रश्नचतुष्टयम्)

1x4=4

(i) षट्+एते पाठका गुणाः सन्ति ।

(ii) अतः प्रयतिष्ये चक्षुषोऽस्य पुनः प्रत्यारोपणाय ।

(iii) रमणीया हि सृष्टिः+एषा ।

(iv) एकैकपक्षे ग्रथितं मणिनां तथापि काकः न तु राजहंसः ।

(v) ध्यायतः विषयान् पुंसः सङ्गः+तेषु उपजायते ।

6. अधोलिखितवाक्येषु रेखाङ्कितपदानां समासं विग्रहं वा प्रदत्तविकल्पेभ्यः चित्वा लिखत ।

1x4=4

(केवलं प्रश्नचतुष्टयम्)

(i) पदच्छेदः पाठकस्य गुणः अस्ति ।

(क) पदः छेदः (ख) पदानां छेदः (ग) पदेन छेदः (घ) पदः च छेदः च

(ii) न दीयमानं धनं निधन-एकनिष्ठं भवति ।

(क) अदीयमानं (ख) अनदीयमानं (ग) दीयमानं न (घ) उदीयमानं

(iii) सर्वेषामेव महत्त्वं विद्यते यथासमयम् ।

(क) समयं यथा (ख) समयम् अतिक्रम्य (ग) समयम् अनतिक्रम्य (घ) यथा च समयं च

(iv) अहः च निशा च सः मेषः महानसं प्रविश्य भक्षयति ।

(क) अहर्निशि (ख) अहर्निशम् (ग) अहर्निशा (घ) अहनिशः

(v) शक्नोतीहैव यः सोढुं प्राक् शरीरविमोक्षणात् ।

(क) शरीरस्य विमोक्षणात् (ख) शरीरे विमोक्षणात् (ग) शरीरं विमोक्षणात् (घ) शरीरेण विमोक्षणात्

7. अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रकृति-प्रत्ययौ संयोज्य विभज्य वा उचितम् उत्तरं विकल्पेभ्यः 1x4=4

चित्वा लिखत । (केवलं प्रश्नचतुष्टयम्)

(i) राज्ञः दानशीलताम् आकर्ष्य जनाः आयन्ति स्म ।

(क) दानशील+डीप् (ख) दानशील + तल् (ग) दानशील + त्व (घ) दानशील+ मतुप्

(ii) काकः अवदत् – ‘किम् उक्तवती भवत्+ डीप् ?

(क) भवति (ख) भवती (ग) भवान् (घ) भवत्डीप्

(iii) केचित् अश्वाः अर्धदग्धाः केचित् पञ्चत्वं गताः ।

(क) पञ्च+ तल् (ख) पञ्च+ त्वम् (ग) पञ्च+ त्व (घ) पञ्च+ मतुप्

(iv) अर्थिनः विरल+टाप् संख्यां विलोक्य अचिन्तयत् ।

(क) विरला (ख) विरलां (ग) विरलटाप् (घ) विरलः

(v) मनः चञ्चलं बल+मतुप् दृढम् च अस्ति ।

(क) बलवती (ख) बलवान् (ग) बलवत् (घ) बलमत्

8. वाच्यानुसारम् उचितपदैः रिक्तस्थानानि पूरयत- (केवलं प्रश्नत्रयम्)

1x3=3

आचार्यः :- विवेक! किं कक्षायां (i) ----- कोलाहलं कुर्वन्ति ?

केशवः – न महोदय ! छात्रैः कोलाहलः न (ii) ----- ।

आचार्यः – किम् अन्यः शिक्षकः तत्र नास्ति ?

केशवः - नैव, न केनापि शिक्षकेन तत्र (iii) ----- ।

आचार्यः - किं छात्राः संस्कृतभाषां पठन्ति ?

केशवः - आम्, छात्रैः (iv)----- पठ्यते ।

मञ्जूषा:- भूयते , छात्राः , संस्कृतभाषा , क्रियते

9. समुचितकालबोधकशब्दैः रिक्तस्थानं पूरयत- (केवलं प्रश्नत्रयम्)

1x3=3

(क) हरेन्द्रः प्रातः _____ (5.30) वादने उत्तिष्ठति ।

(ख) आद्या _____ (6.45) वादने प्रातराशं करोति ।

(ग) हार्दिकः _____ (2.00) वादने विद्यालयात् गृहम् आगच्छति ।

(घ) सृष्टिः सायं _____ (4.15) वादने क्रीडति ।

10. मञ्जूषायां प्रदत्तैः उचितैः अव्ययपदैः रिक्तस्थानानि पूरयत- (केवलं प्रश्नचतुष्टयम्)

1x4=4

(i) _____ मधुरभाषिणी वाणी पुरुषं प्रह्लादयति तथा चन्दनरसः न ।

(ii) पुरुषः अनिच्छन् _____ पापं चरति ।

(iii) मनसः निग्रहः वायोः _____ दुष्करं मन्ये ।

(iv) अश्वाः प्राणत्राणाय _____ अभ्रमन् ।

(v) _____ ईदृशं दानम् इच्छन् याचकः केनापि प्रेरितः स्यात् ।

मञ्जूषा:- नूनम् , अपि , इव , इतस्ततः , यथा

11. अधोलिखितवाक्येषु रेखाङ्कित-अशुद्धपदाय उचितं पदं चित्वा वाक्यानि पुनः लिखत- (केवलं प्रश्नत्रयम्) 1x3=3

(i) तस्य वचनं अश्रद्धेयं मत्वा कपिः प्रहस्य अवदन् ।

(क) कपयः (ख) कपीन् (ग) कपिनः (घ) कपीनाम्

(ii) सूपकाराः मेषम् आशु ताडयति स्म ।

(क) अताडयन् (ख) ताडयन्ति (ग) ताडयिष्यन्ति (घ) तडयतः

(iii) रमणीयः हि सृष्टिः एषा ।

(क) रमणीयम् (ख) रमणीयाः (ग) रमणीया (घ) रमणीयानि

(iv) वयं स्वर्गसमानोपभोगान् विहाय रुक्षफलानि न भक्षयिष्यामि ।

(क) भक्षयामि (ख) भक्षयिष्याति (ग) भक्षयिष्यन्ति (घ) भक्षयिष्यामः

खण्डः 'घ' पठितावबोधनम् (30 अङ्काः)

12. अधोलिखितगद्यांशं पठित्वा प्रश्नान् उत्तरत ।

कस्मिंश्चित् नगरे चन्द्रो नाम भूपतिः प्रतिवसति स्म । तस्य पुत्राः वानरक्रीडारताः वानरयूथं नित्यमेव विविधैः भोज्यपदार्थैः पुष्टिं नयन्ति स्म । तस्मिन् राजगृहे बालवाहनयोग्यं मेषयूथम् आसीत् । तेषां मेषाणां मध्ये एको मेषः जिह्वालोलुपतया अहर्निशं महानसं प्रविश्य यत् पश्यति तद् भक्षयति । ते च सूपकाराः यत्किञ्चित् काष्ठं, मृण्मयं भाजनं, कांस्यताम्रपात्रं वा पश्यन्ति तेन तम् आशु ताडयन्ति स्म ।

I. एकपदेन उत्तरत । (केवलं प्रश्नद्वयम्)

$1/2 \times 2 = 1$

(i) नृपस्य किं नाम आसीत् ?

(ii) के वानरैः सह क्रीडन्ति स्म ?

(iii) कुत्र भूपतिः प्रतिवसति स्म ?

II. पूर्णवाक्येन उत्तरत (केवलं प्रश्नद्वयम्)

$1 \times 2 = 2$

(i) मेषः कुत्र प्रविश्य यत् पश्यति तद् भक्षयति?

(ii) सूपकाराः मेषं कैः ताडयन्ति स्म?

(iii) तस्मिन् राजगृहे कीदृशं मेषयूथम् आसीत् ?

III. भाषिक कार्यम् । (केवलं प्रश्नद्वयम्)

$1 \times 2 = 2$

(i) "पुत्राः" इति कर्तृपदस्य किम् क्रियापदं प्रयुक्तम् अस्ति ?

(ii) "विविधैः भोज्यपदार्थैः" अनयोः विशेष्यपदं किम् अस्ति?

(iii) 'ताडयन्ति स्म' -इति क्रियापदस्य कर्तृपदं किम् अस्ति?

13. अधोलिखितं पद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत-

ध्यायतः विषयान् पुंसः सङ्गस्तेषूपजायते ।

सङ्गात्सञ्जायते कामः कामात्क्रोधोऽभिजायते ॥

I. एकपदेन उत्तरत- (केवलं प्रश्नद्वयम्)

$1/2 \times 2 = 1$

(i) विषयेषु कस्य सङ्गः उपजायते?

(ii) सङ्गात् कः उपजायते?

(iii) कामात् कः अभिजायते?

II. पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्)

$1 \times 2 = 2$

(i) विषयान् ध्यायतः पुंसः किं भवति?

(ii) कामात् पूर्वं किम् उपजायते?

(iii) कस्मात् कामः उपजायते ?

III. निर्देशानुसारम् उत्तरत- (केवलं प्रश्नद्वयम्)

1x2=2

(i) 'आसक्तिः' इति पदस्य पर्यायपदं किम् अस्ति?

(ii) 'ध्यायतः विषयान् पुंसः सङ्गस्तेषूपजायते' अत्र कर्तृपदं किम् अस्ति?

(iii) 'असङ्गः' इति पदस्य विलोमपदं श्लोके किं प्रयुक्तम्?

14. अधोलिखितं नाट्यांशं पठित्वा प्रश्नान् उत्तरत-

काकः - रे परभृत् ! अहं यदि तव सन्ततिं न पालयामि तर्हि कुत्र स्युः पिकाः?

अतः अहमेव करुणापरः पक्षिसम्राट् काकः ।

राजहंसः - शान्तं शान्तम् । अहमेव नीरक्षीरविवेकी पक्षिणां राजा ।

(ततः प्रकृतिमाता प्रविशति)

प्रकृतिः - (सस्नेहं) अलं मिथः कलहेन । अहं प्रकृतिः एव युष्माकं जननी । यूयं सर्वे एव मम प्रियाः

सर्वेषामेव महत्वं विद्यते यथासमयम् । सर्वेः एव मे शोभा । न तावत् कलहेन समयं वृथा यापयेत ।

मिलित्वा एव मोदध्वं जीवनं च रसमयं कुरुध्वम् ।

1. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)

$\frac{1}{2} \times 2 = 1$

(i) कः आत्मानं 'नीरक्षीरविवेकी' इति कथयति ?

(ii) पिकस्य सन्ततिं कः पालयति ?

(iii) प्रकृतिः केषाम् जननी अस्ति ?

II. पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्)

1x2=2

(i) सर्वेः एव कस्याः शोभा वर्तते ?

(ii) कलहेन कम् वृथा न यापयेत ?

(iii) प्रकृतिः किम् अवदत्?

III. निर्देशानुसारम् उत्तरत- (केवलं प्रश्नद्वयम्)

1x2=2

(i) 'पालयामि' इति क्रियापदस्य कर्तृपदं किम् अत्र प्रयुक्तम् ?

(ii) 'परस्परम्' इत्यस्य किं पर्यायपदम् अत्र प्रयुक्तम् ?

(iii) 'पक्षिसम्राट्' इत्यस्य विशेष्यपदं चित्वा लिखत ।

15. रेखाङ्कित-पदानि आधृत्य प्रश्ननिर्माणं कुरुत- (केवलं प्रश्नपञ्चकम्)

1x5=5

(i) भारत्याः कोशः अपूर्वः विद्यते ।

(ii) राजा याचकेभ्यः दानं ददाति स्म ।

(iii) जगत्पतेः सृष्टिः रमणीया अस्ति ।

(iv) अश्वाः प्राणत्राणाय इतस्ततः अधावन् ।

(v) मनसः निग्रहः वायोरिव कठिनम् अस्ति ।

(vi) चञ्चलम् हि मनः कृष्णः प्रमाथि बलवद्दृढम् ।

16. मञ्जूषातः समुचितपदानि चित्वा अधोलिखित-श्लोकस्य अन्वयं पूरयित्वा पुनः लिखत -

1/2x4=2

कपीनां मेदसा दोषो वह्निदाहसमुद्भवः ।

अश्वानां नाशमभ्येति तमः सूर्योदये यथा ।।

अन्वयः- अश्वानां वह्निदाहः (i)----- दोषः कपीनां (ii) ----- (तथैव) (iii) -----
अभ्येति यथा (iv) ----- तमः (नाशमभ्येति) ।

मञ्जूषा : - मेदसा, समुद्भवः, सूर्योदये, नाशम्

अथवा

मञ्जूषायाः साहाय्येन श्लोकस्य भावार्थं रिक्तस्थानानि पूरयित्वा पुनः लिखत -

क्रोधाद्भवति सम्मोहः सम्मोहात्स्मृतिविभ्रमः ।

स्मृतिभ्रंशाद्बुद्धिनाशो बुद्धिनाशात्प्रणश्यति ॥

भावार्थः – मित्र अर्जुन ! तस्मात् (i) ----- एव मानुषेषु (ii) ----- जायते । मोहात् एव
स्मृतेः (iii) ----- भवति, स्मृति-विभ्रमात् (iv) ----- नाशः भवति ।

मञ्जूषा : - मोहः , क्रोधात् , बुद्धेः , विभ्रमः

17. अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रसङ्गानुकूलम् उचितार्थं चित्वा लिखत- (केवल प्रश्नचतुष्टयम्)

1x4=4

(i) आचार्यात् पादम् आदत्ते ।

(क) चरणम् (ख) चतुर्थांशम् (ग) श्लोकस्य पङ्क्तिः (घ) वाक्यम्

(ii) एकदा राजा सरोवरस्य समीपे विहरति ।

(क) नद्याः (ख) तडागस्य (ग) नगरस्य (घ) सागरस्य

(iii) काकस्य गात्रम् यदि काञ्चनस्य ।

(क) गोत्रम् (ख) कुटुम्बम् (ग) शरीरम् (घ) नेत्रम्

(iv) मेषः महानसं प्रविश्य भक्षयति ।

(क) अश्वशालाम् (ख) मन्दिरम् (ग) पाकशालाम् (घ) गृहम्

(v) क्रोधात् भवति सम्मोहः ।

(क) विपुलता (ख) निर्धनता (ग) उद्विग्नता (घ) स्थिरता

18. मञ्जूषायाः सहायतया कथापूर्तिं कृत्वा कथां पुनः लिखत ।

1/2x8=4

प्रभातवेलायां राजहंसी राजहंसः च (i) ----- विहरतः स्म । तदैव सहसा (ii)----- ध्वनिं श्रुत्वा
राजहंसः (iii)----- राजहंसीं च पृच्छति यत् इयं (iv) ----- कस्य अस्ति ? राजहंसी
(v) ----- ध्वनिः इयम् इति वदति । सा कथयति यत् काकस्य (vi) ----- कृष्णः
कर्म अपि कृष्णम् एव अस्ति । तदैव (vii) ----- सक्रोधं प्रविश्य वदति यत् मम वर्णः तु
(viii) ----- श्रीकृष्णस्य च इव वर्तते । अहं तु छात्रेभ्यः आदर्शः अस्मि ।

मञ्जूषा- सरस्तीरे , काकः , श्रीरामस्य , काकस्य , ध्वनिः , वर्णः , आकुलीभवति , काकस्य

D.A.V. INSTITUTIONS, WEST BENGAL ZONE
PERIODIC TEST II
SESSION 2024-2025

CLASS: X
SUBJECT: SCIENCE

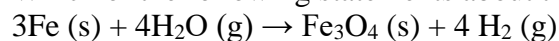
MAXIMUM MARKS:80
TIME: 3 HOURS

General Instruction:

- (i) This questions paper comprises 39 questions. All questions are compulsory.
- (ii) This questions paper is divided into five sections A, B, C, D and E.
- (iii) Section A-Question No.1 to 20 are multiple choice questions. Each question carries 1 mark.
- (iv) Section B- Questions No.21 to 26 are very short answer type questions. Each question carries 2 marks. Answer to these questions should be in the range of 30 to 50 words.
- (v) Section C- Questions No. 27 to 33 are short answer type questions. Each question carries 3 marks. Answer to these questions should in the range of 50 to 80 words.
- (vi) Section D – Questions No.34 to 36 are long answer type questions. Each question carries 5 marks. Answer to these questions should be in the range of 80 to 120 words.
- (vii) Section E- Questions No.37 to 39 are of 3 source-based/case – based units of assessment carrying 4 marks each with sub parts.
- (viii) There is no overall choice. However, an internal choice has been provided in some sections. Only one of the alternatives has to be attempted in such questions.

SECTION: A

- 1 Which of the following statements about the given reaction are correct? 1



- (I) Iron metal is getting oxidized.
- (II) Water is getting reduced.
- (III) Water is acting as reducing agent.
- (IV) Water is acting as oxidising agent.

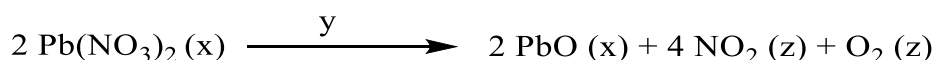
(a) (I), (II) and (III)

(b) (I) and (III)

(c) (I), (II) and (IV)

(d) (III) and (IV)

- 2 Identify the x, y & z in the following reaction- 1



(a) x = Solid, y= Liquid , z = Gas

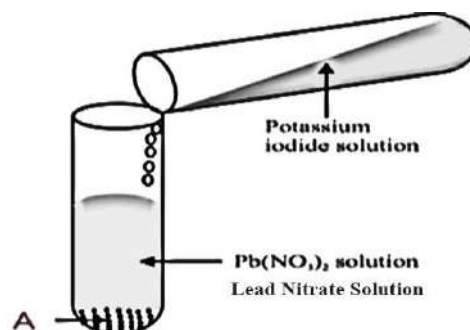
(b) x = Liquid , y= Reaction condition, z = Gas

(c) x = No of molecules of $\text{Pb(NO}_3)_2$ & PbO , y = Reaction condition, z= No of molecules of O_2 & NO_2

(d) x = Physical state of $\text{Pb(NO}_3)_2$ & PbO , y = Reaction condition, z= Physical state of O_2 & NO_2

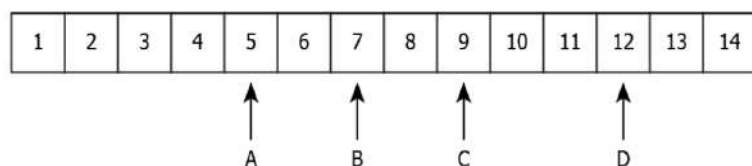
- 3 Identify 'A' and type of reaction- 1

- (a) Potassium iodide and combination reaction.
- (b) Potassium nitrate and combination reaction.
- (c) Lead iodide and single displacement reaction.
- (d) Lead iodide and double displacement reaction



- 4 The image shows the pH values of four solutions on a pH scale.

1

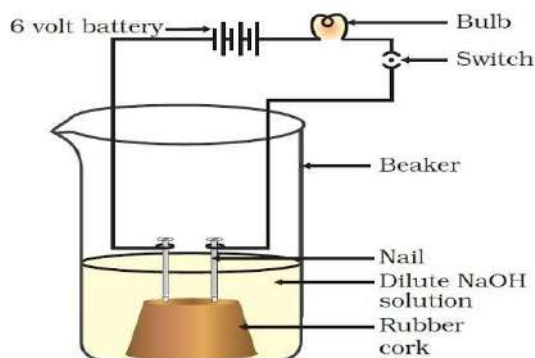


Which solutions are alkaline in nature?

- (a) A and B (b) B and C (c) C and D (d) A and D
- 5 On adding dilute HCl to copper oxide in a beaker, the solution turns blue-green due to formation of-
- (a) $\text{Cu}(\text{OH})_2$ (b) $\text{Cu}(\text{NO}_3)_2$ (c) CuCl_2 (d) CuSO_4
- 6 In an attempt to demonstrate electrical conductivity through an electrolyte, the following apparatus was set up.

1

1



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

- (i) Bulb will not glow because electrolyte is not acidic.
 (ii) Bulb will glow because NaOH is strong base and furnishes ions for conduction.
 (iii) Bulb will not glow because circuit is incomplete
 (iv) Bulb will not glow because it depends upon the type of electrolyte solution.
- (a) (i) and (iii) (b) (ii) and (iv) (c) (ii) only (d) (iv) only
- 7 When a small amount of acid is added to water, the phenomena which occur are:
- I. Dilution II. Neutralization
 III. Formation of H_3O^+ IV. Salt formation
- The correct statements are:
- (a) I & III (b) II & IV (c) I & II (d) III & IV

1

- 8 Which of the following is the correct equation for aerobic respiration?

1

- (a) Glucose + Oxygen \longrightarrow Carbon dioxide + Water + Energy
 (b) Carbon dioxide + Water + Energy \longrightarrow Glucose + Oxygen
 (c) Glucose + Carbon dioxide \longrightarrow Water + Oxygen + Energy
 (d) Oxygen + Water \longrightarrow Glucose + Carbon dioxide + Energy

- 9 Haemoglobin and chlorophyll have similar structures.

1

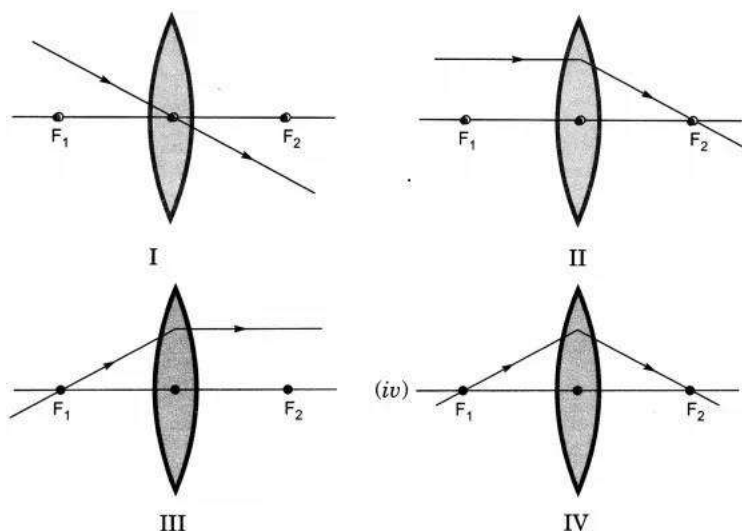
- A molecule of haemoglobin is composed of the atoms of 4 elements - carbon, Hydrogen, Oxygen, and Nitrogen, all four organised around iron.

- A chlorophyll is composed of the same elements, which are organised around Magnesium.

Considering the above information, which element of haemoglobin is MOST LIKELY responsible for the red colour of our blood?

- (a) Hydrogen
 (b) Nitrogen
 (c) Carbon
 (d) Iron

- 10 Identify which of the following statements about autotrophs is false? 1
- Autotrophs produce their own food using external energy sources.
 - Autotrophs include both plants and certain bacteria.
 - Autotrophs are unable to convert solar energy into chemical energy.
 - Autotrophs are vital in supporting ecosystems by providing energy to heterotrophs.
- 11 If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected? 1
- Protein breaks down into amino acid.
 - Starch breaks down into sugar
 - Fat breakdown into fatty acid and glycerol.
 - Absorption of vitamin.
- 12 Which hormone is involved in the regulation of blood sugar levels? 1
- Estrogen
 - Growth Hormone
 - Insulin
 - Thyroxine
- Choose the correct option
- II & III both are correct options
 - I & II both are correct options
 - Only III is the correct option
 - all are correct options
- 13 The diagrams showing the correct path of the ray after passing through the lens given below: 1



- II and III only
 - I and II only
 - I, II and III
 - I, II and IV
- 14 The human eye can focus objects at different distances by adjusting the focal length of the eye lens. This is due to 1
- presbyopia
 - accommodation
 - near-sightedness
 - farsightedness.
- 15 Identify which of the following statements about thyroxine is incorrect? 1
- Thyroid gland requires iodine to synthesize thyroxine.
 - Thyroxine is also called thyroid hormone.
 - It regulates protein, carbohydrates and fat metabolism in the body.
 - Iron is essential for the synthesis of thyroxine.

- 16 The figure shows the movement of a stem. Plant hormone Auxin regulates cell elongation and growth of plants in a particular direction. 1



Roots of plants are:

- (a) Positively geotropic
- (b) Negatively geotropic
- (c) Positively phototropic
- (d) None of these

Q.No.17 to 20 consists of two statements- Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

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

- 17 **Assertion (A):** Antacids are used to get rid of pain caused by indigestion. 1
Reason (R): Antacids neutralise the excess acid produced in the stomach.
- 18 **Assertion(A):** Absciscic acid is a stress hormone. 1
Reason(R): Stimulation of Absciscic acid occurs in adverse condition.
- 19 **Assertion (A)** The rate of breathing in aquatic organisms is much slower than that seen in terrestrial organisms. 1
Reason (R) The amount of oxygen dissolved in water is very low as compared to the amount of oxygen in air.
- 20 **Assertion(A):** A dentist uses a concave mirror to examine a cavity. 1
Reason(R): A concave mirror forms enlarged, virtual image of an object placed between the pole and focus.

SECTION: B

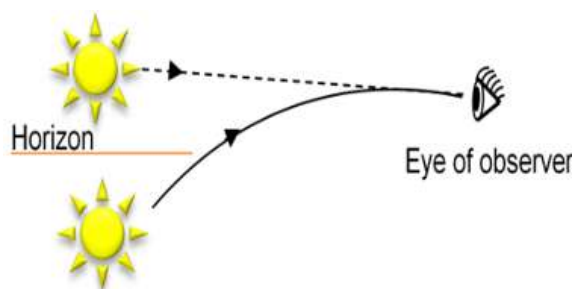
- 21 A brown substance 'A' on heating in air forms a substance B. When hydrogen is passed over heated B, it changes back to A. 2
(i) What are the names of substances A and B?
(ii) Write chemical equations for both the reactions.
- 22 Diffusion is insufficient to meet the oxygen requirement of multicellular organisms like human. 2
State reason.
- 23 You have eaten lunch which contains paneer curry and bread-butter. Which enzymes are responsible for digestion of these food items in the small intestine? 2
- 24 Calculate the speed of light in a medium whose refractive index is $\frac{4}{3}$. 2
Given the speed of light in glass is 2×10^8 m/s and its refractive index is 1.5.

OR

The refractive index of a dense flint glass is 1.65 and for alcohol is 1.36 with respect to air. Find the refractive index of dense flint glass with respect to alcohol.

25 A natural phenomenon shown in figure. Observe this and answer the following.

2

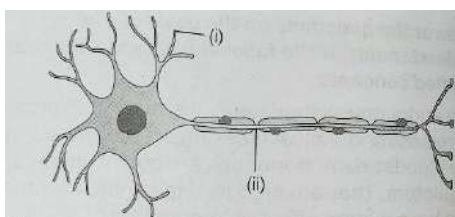


- (i) Identify the natural phenomenon shown in figure.
- (ii) What happens to the sun's light as it enters the atmosphere? Explain.

26 i) A hormone produced in males 'X' is responsible for the secondary sexual characters in male human beings. Identity 'X'.

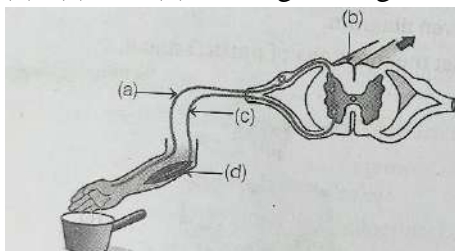
2

- ii) Write the names of parts (i) and (ii) in the diagram of a neuron given below.



OR

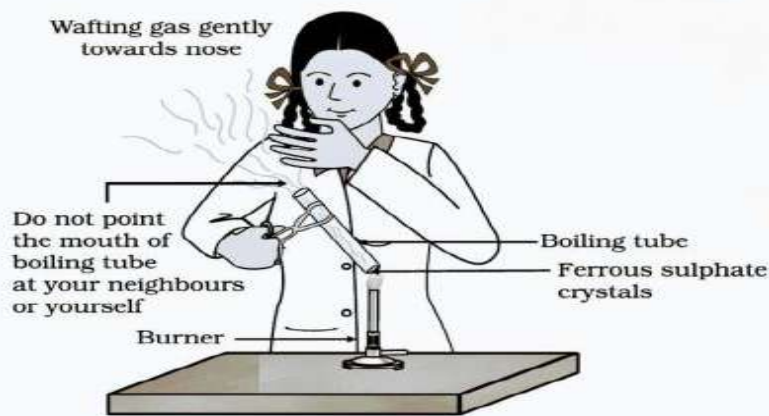
Label the parts (a), (b), (c) and (d) in the given figure.



SECTION: C

27 A student performed the following experiment. Observe the experiment given below carefully and answer the following questions:

3

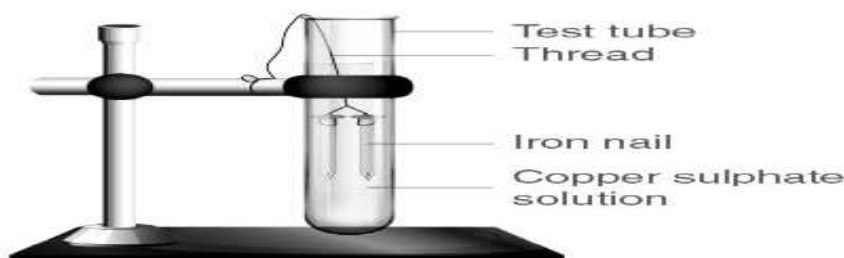


- (a) What happens when ferrous sulphate crystals are heated?
- (b) What types of chemical reaction occurs in this change?

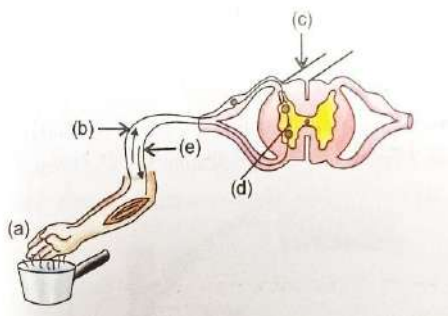
(c) Write the balanced chemical equation in this activity.

OR

Observe the experiment given below carefully and answer the following questions:



- (a) What happens when Iron nails dipped in copper sulphate solution?
(b) What types of chemical reaction occurs in this change?
(c) Write the balanced chemical equation in this activity.
- 28 Give reason of the following statements: 3
(a) pH change as the cause of tooth decay.
(b) Tartaric acid is used in baking soda.
(c) During summer season, a milkman usually adds a small amount of baking soda to fresh milk.
- 29 Classify the following into reflex action and involuntary actions of brain. 3
i) Beating of heart.
ii) Withdrawing your hand immediately on touching a hot object.
iii) Change in size of pupil in response to intensity of light.
iv) Riding a bicycle.
v) Sneezing.
vi) Pulling up the leg immediately when foot falls on some sharp object.
- 30 a) Name any two parts from (a) to (e) in the diagram. 3
b) Trace the sequence of events which occur when the person touches extreme hot water unknowingly.



- 31 At what distance should an object be placed from a convex lens of focal length 18cm to obtain an image at 24cm from it on the other side. What will be the magnification produced in this case? 3
- 32 (a) A concave mirror produces 3 times enlarged and erect image of an object placed at 10cm in front of it. Calculate the image distance. 3
(b) Show the formation of the image with the help of a ray diagram when an object is placed between pole and focus of a concave mirror.
- 33 A person is not able to see the object distinctly when placed within 25 cm from him but can see clearly when object is kept at 50 cm from him. 3
(i) What is near point vision for him?
(ii) Identify the nature lens prescribed by the doctor to correct the eye defect.

- (iii) What may be the cause of this eye defect?
 (iv) Draw a suitable ray diagram for the correction this defect.

SECTION: D

5

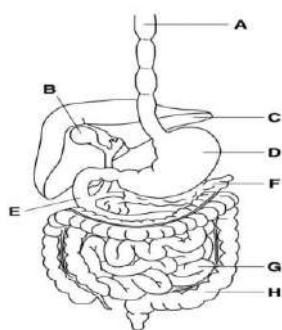
- 34 A metal carbonate X on reacting with an acid gives a gas which when passed through a solution Y gives the carbonate back. On the other hand, a gas G that is obtained at anode during electrolysis of brine (write the chemical equation) is passed on dry Y, it gives a compound Z, used for disinfecting drinking water. Identity X, Y, G and Z. Also, write all the chemical equation involved.

OR

A white powder is used by doctors to support fractured bones. Rahul found that the white powder, which he stored in a container, has become very hard and lost its binding nature.

- Write the name and chemical formula of the powder.
 - What is the reason for the above observation? Also, write a chemical equation to represent the reaction taking place.
 - Give any two uses of the white powder other than for plastering or smoothening of walls.
- 35 (a) The following figure shows the human elementary canal. Identify B,C,D,F,G and H.

5



- (b) Write down the function of C and F in food digestion.

OR

Plant transport systems will move energy stores from leaves and raw materials from roots. These two pathways are constructed as independently organised conducting tubes. One, the xylem moves water and minerals obtained from the soil. The other, phloem transports products of photosynthesis from the leaves where they are synthesised to other parts of the plant.

- What are the different parts of xylem?
 - What do you mean by the term transpiration?
 - What are the advantages of transpiration?
 - What is translocation?
- 36 A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 50cm from the mirror.
- Write the type of mirror.
 - Find the distance of the image from the object.
 - What is the focal length of the mirror?
 - Draw the diagram to show the image formation in this case.

5

OR

- Draw ray diagram to show the refraction through a glass slab.
- What will be the angle of emergence if the angle of incidence on a glass slab is:
 - 45°
 - 0°
- State Snell's law? Calculate the refractive index of medium A with respect to medium B if angle of incidence in medium A is 45° and angle of refraction in medium B is 30° .

SECTION: E

- 37 The earlier concept of oxidation and reduction is based on the addition or removal of oxygen or hydrogen elements, so in terms of oxygen and hydrogen, oxidation is addition of oxygen to a substance and removal of hydrogen from a substance. On the other hand, reduction is addition of hydrogen to a substance and removal of oxygen from a substance. The substance which gives oxygen to another substance or removes hydrogen from another substance in a redox reaction is known as oxidising agent, while the substance which gives hydrogen to another substance or removes oxygen from another substance in a redox reaction is known as reducing agent. 4

Based on the above information answer the following questions.

- (a) What is the phenomenon of copper getting tarnished?
- (b) What type of chemical reaction causes rancidity?
- (c) Identify the oxidizing and reducing agents in the given chemical reaction: $\text{MnO}_2 + 4\text{HCl} = \text{MnCl}_2 + \text{Cl}_2 + 2\text{H}_2\text{O}$

OR

- (c) Identify the substance oxidised and substance reduced in the given chemical reaction:
 $\text{V}_2\text{O}_5 + 5\text{Ca} \rightarrow 2\text{V} + 5\text{CaO}$

- 38 Raima, a 10-year-old girl, is significantly shorter than her peers and shows delayed development. Anita is suffering from another problem as is also 10 years old, she shares her problem regarding irregular Menstruation Cycle to Raima. 4

- (a) Which kind of hormonal deficiency is responsible for the short height of Raima and from where this hormone is secreted?
- (b) Which hormone is necessary to regulate Menstrual Cycle. Which gland secretes this hormone?
- (c) Name a gland that secretes a hormone as well as Digestive Juice. Name the secretions and their functions.

OR

- (c) Which hormone is necessary for development of female sex organ? Specify the particular age of human body when Estrogens and Testosterone hormones changes their secretion rate.

- 39 A rainbow is an excellent demonstration of the dispersion of light and support the evidence that visible light is composed of seven distinct colours. Each individual water-droplet present in air acts as tiny prism and disperses the sun's light. 4



- (i) Write down the correct order of the natural phenomena which are involved in the formation of rainbow.
- (ii) Arrange different colours in ascending order of angle of deviation.
- (iii) What is the reason behind the phenomenon of splitting of white light into its various colours?

OR

Is it possible to get back the white light after splitting into its components? Support your answer with suitable diagram.

D.A.V. INSTITUTIONS, WEST BENGAL ZONE
PERIODIC TEST II
SESSION: 2024-2025

CLASS: X
SUBJECT: SOCIAL SCIENCE

MAXIMUM MARK: 80
TIME: 3 HOURS

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 questions 1 to 20 are MCQ s of 1mark each.
- iii. Section B-Question no. 21 to 24 are very short Answer Type Questions, carrying 2 marks. Answer to each question should not exceed 40 words.
- iv. Section C-Question no. 25 to 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-Question no. 34 to 36 are case based questions with three sub questions and are of 4 marks each.
- vii. Section F – Questions no.37 is map based, carrying 5 marks with two parts, 37.a. from History (2 marks) and 37.b. from Geography (3 marks). Attach the map with the answer sheet.
- 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 has to be attempted.
- ix. In addition to this, separate instructions are given with each section and questions, wherever necessary.
- x. The question paper has a total of 7 numbers of pages.

SECTION-A (Multiple Choice questions)

1. Identify the personality with the help of given features- 1
*He was an Italian statesman
*He spoke French much better than Italian
*He was a tactful diplomat
*He belonged to a royal family
a. Giuseppe Mazzini b. Count Camillo Cavour
c. Giuseppe Garibaldi d. Victor Emmanuel
2. The form of currency used for more than a millennia ago- 1
a. Rupaya b. Rupees
c. Paisa d. Cowdi or cowries.
- 3.



- Which of the following aspects best signifies the given image of Germania-
- a. Heroism & Justice b. Folk & Culture
c. Austerity & Asceticism d. Revenge & Vengeance 1
 4. Name the most powerful weapon used by Spanish to conquer America- 1
a. Atom Bomb. b. Poisonous Gas
c. Small pox d. Guns
 5. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per 1
the codes provided below-
Assertion (A)- Tiger population had reduced rapidly in India from 55,000 to just 1827 in 1973.
Reason (R)- Increase in demand of traditional medicines in African countries led to large scale poaching of tigers.

a. Both A and R are correct and R is the correct explanation of A.
b. Both A and R are correct, 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.

7. Identify the correct reason for the formation of gullies in bad lands- 1
- When moving wind blows away loose soil of flat land.
 - When water flows over large areas down a slope.
 - Formed when running water cuts through soils making deep channels.
 - Formed when ploughing is done in a wrong way.

- | Column A | Column B |
|--|----------|
| A. Sri Lanka got independence | 1. 1956 |
| B. Act declared Sinhala as the official language | 2. 2009 |
| C. Civil war ended in Sri Lanka | 3. 1948 |

A	B	C	A	B	C
a. 2	1	3	b. 3.	1.	2
c. 2.	3	1	d. 1.	2.	3

- Reason (R)-** When power is shared among different social groups each group feels represented and their interests are accommodated in decision making processes.

- a. Both A and R are true, but 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

- a. Pacific b. Americas c. Middle-east d. Nordic countries

14. In which level of government one-third seats are reserved for women in India? 1
- a. Panchayats and Municipals b. Lok Sabha
- c. State Assemblies d. Rajya Sabha

15. The French speaking people accepted equal representation in Brussels because- 1
 a. Dutch-speaking communities had accepted equal representation in the Central Government
 b. German-speaking people did not demand for equal representation
 c. Dutch-speaking community forced the French speaking people to accept equal representation
 d. Dutch-speaking people were less in number in Brussels.
16. GDP is the total value of _____ produced within a country during a particular year. 1
 a. all goods and services b. all final goods and services
 c. all intermediate goods and services d. all intermediate and final goods and services
17. Anil has got a job in a company where the payment is very good. But he found that it does not have much job security and working environment is not cordial. So, Anil declined the offer. Which of the following sentence best describes the situation- 1
 a. Material things that money can buy is more important.
 b. Besides seeking more income there are other goals that one may seek for.
 c. The quality of our life depends on our income.
 d. Materialistic demands should be ignored.
18. Match the following-
 LIST A LIST B
 A. Per capita Income 1. Total Income 1
 B. National Income. 2. Human Development Index
 C. Body Mass Index 3. Average Income
 D. Decent standard of living. 4. Proper Nutrition
- CODES**
 A B C D. A B C D
 a. 4 1 3 2 b. 3 2 4 1
 c. 1 4 3 2 d. 3 1 4 2
19. Disguised unemployment occurs when people are: 1
 a. not paid for their work b. working more than their actual potential
 c. not willing to work d. apparently working without any contribution to total output.
20. Arrange the following in the correct sequence – 1
 i. Transporting cloth to the workshops
 ii. Sale in shops and showrooms
 iii. Spinning the yarn
 iv. Weaving of the fabric
 Options –
 a. i--iv--iii--ii b. iii –iv—i—ii c. iv—i--ii—iii d. iii—iv--ii--i

SECTION-B

(VERY SHORT ANSWER QUESTIONS)

21. Explain the aim to form Zollverein, a Customs Union, in 1834 in Germany? 2
22. “Majoritarianism adopted in Sri Lanka was against the spirit of democracy.” Justify the statement. 2
23. ‘Irrigation has changed the cropping pattern of many regions in India’. Analyse this statement. 2

OR

- Why is “Laws of Inheritance” responsible for fragmentation of land holding in India?
24. Is India a federal country? Give reasons in support of your answer. 2

SECTION-C

(SHORT ANSWER BASED QUESTIONS)

25. Discuss the significance of the Swadeshi movement in India’s struggle for independence. 3
 How did it promote nationalist sentiments and challenge British economic dominance?
 Provide examples to support your answer.

OR

How the plantation workers in Assam had their own understanding of Mahatma Gandhi and the notion of Swaraj? Explain.

26. Illustrate with the help of relevant example that community has conserved the pristine vegetation and wildlife of India since ages. 3
27. What does the history of developed countries indicate about the shifts that have taken place between sectors? 3

OR

Explain three reasons for growing importance of service sector in India.

28. What is secularism? Write any two features of secularism in India. 3

OR

Write any three arguments to show that caste alone cannot determine election results in India.

29. Kerala, despite having a lower per capita income than Haryana ranks higher in human development. Does this indicate that per capita income is an inadequate criterion for comparing development? Discuss. 3

SECTION –D

(LONG ANSWER BASED QUESTIONS)

30. Describe the explosive conditions that prevailed in Balkans after 1871 in Europe. 5

OR

Culture had played an important role in the development of Nationalism in Europe during the 18th and 19th centuries. Support the statement with examples.

31. Suggest the initiatives taken by the government to ensure the increase in agricultural production. 5

OR

Explain any five features of difference between intensive subsistence and plantation farming of India.

32. What changes had taken place in local government according to the constitutional amendment in 1992? 5

OR

What is decentralization? What are the advantages of decentralization?

33. a. Give two reasons why different people have different developmental goals? 2+3
b. Illustrate with an example how development initiative that benefits one group of people may negatively impact another group of people.

OR

a. “Money cannot buy all the goods and services that one needs to live well”. Do you agree with this statement? Justify your answer with any two suitable arguments.

b. How can the collective provision of goods and services enhance economic efficiency and improve social welfare?

SECTION-E

(CASE BASED QUESTIONS)

34. **Read the extract and answer the following questions.**

We believe that it is the inalienable right of the Indian people as of any other people, to have freedom and to enjoy the fruits of their toil and have the necessities of life, so that they may have full opportunities of growth. We believe also that if any government deprives people of these rights and oppresses them, the people have a further right to alter it or to abolish it. The British government in India had not only deprived the Indian people of their freedom but had based itself on the exploitation of the masses and had ruined India economically, culturally and spiritually. We believe therefore, that India must sever the British connection and attain Purna Swaraj or Complete Independence.

Read the given extract and answer the following questions-

- 34.1. Why was freedom considered an inalienable right of the Indian people? 1
34.2. Why was Purna Swaraj considered essential by the people of India? 1
34.3. Explain the significance of the Lahore Session of Congress (1930). 2

35. **Read the extract and answer the following questions.**

In ancient India, along with sophisticated hydraulic structures there existed an extraordinary tradition of water harvesting system. People had an in-depth knowledge of rainfall regimes and soil types and developed wide ranging techniques to harvest groundwater, river water and flood water in keeping with the local ecological conditions and their water needs. In hilly and mountainous regions people build diversion channels like the 'kuls' and 'guls' of Western Himalayas for agriculture. Rooftop rainwater harvesting was very commonly practiced to store drinking water particularly in Rajasthan.

Read the given extract and answer the following questions –

- 35.1. Mention any two methods of traditional water- harvesting used in India. 1
35.2. How do people of Rajasthan utilise 'palar pani' for self-consumption? 1
35.3 Explain any two benefits of rainwater harvesting. 2

36. **Read the extract and answer the following questions-**

If children who are currently working as child laborers are to attend schools, we will require more buildings, more teachers, and other staff. A study conducted by the erstwhile Planning Commission (now known as NITI Aayog) estimates that nearly 20 lakh jobs can be created in the education sector alone. Similarly, if we are to improve the health situation, we need many more doctors, nurses, health workers, etc., to work in rural areas. These are some ways by which jobs would be created. Every state or region has the potential for increasing the income and employment for people in that area. It could be tourism, regional craft industry, or new services like IT. Some of these would require proper planning and support from the government. For example, the same study by the Planning Commission says that if tourism as a sector is improved, every year we can give additional employment to more than 35 lakh people. We must realize that some of the suggestions discussed above would take a long time to implement. For the short term, we need some quick measures. Recognizing this, the central government in India made a law implementing the Right to Work in about 625 districts of India. It is called the Mahatma Gandhi National Rural Employment Guarantee Act 2005 (MGNREGA 2005). Under MGNREGA 2005, all those who are able to, and are in need of work in rural areas, are guaranteed 100 days of employment in a year by the government. If the government fails in its duty to provide employment, it will give unemployment allowances to the people.

- a. What is the current name of the organization formerly known as the Planning Commission of India? 1
b. Under which law of the central government was the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) implemented? 1
c. Mention two measures how employment opportunities can be enhanced in urban areas? 2

SECTION-F

(MAP SKILL BASED QUESTION)

37. a) Two places A and B have been marked on the given map of India. Identify them and write their correct names on the lines drawn near them. 2
A. A place where Civil Disobedience Movement started.
B. A place where Gandhiji went to organise Satyagraha Movement among Cotton mill workers.
- b) I. On the given political outline map of India locate and label **any two** of the following with suitable symbols. 3
i. A river valley project on Chenab
ii. A river valley project on Narmada
iii. A river valley project on Krishna
II. On the same map two features are marked as P and Q. Identify **any one** of them with the help of the information given and write their correct names on the lines drawn near to them.
P. A major rubber producing state

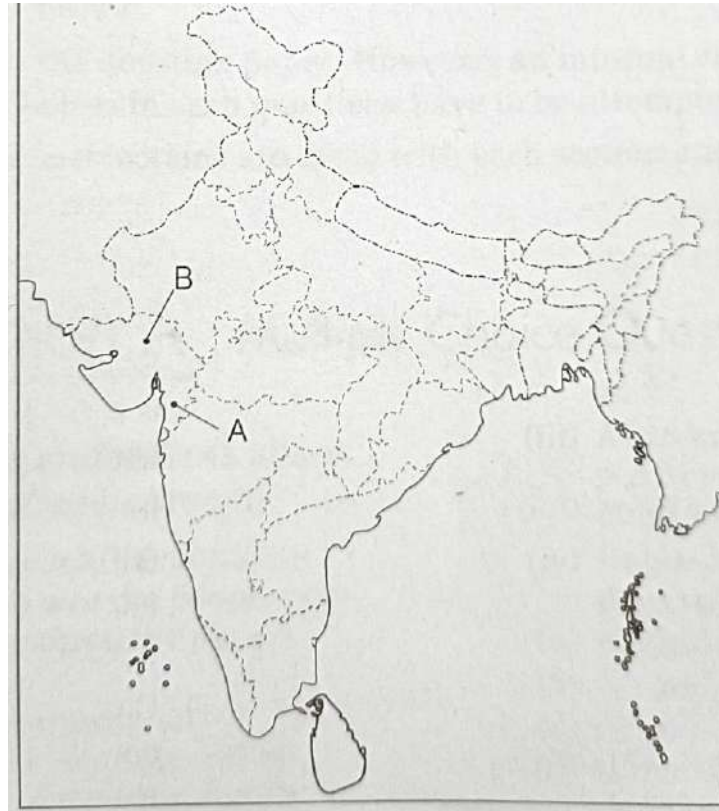
OR

Q. A major soil type.

Name: _____

Class: _____ Sec: _____ Roll _____

Q.No.37. a)



Q.No.37. b)

