

<u>SL. NO.</u>	<u>SUBJECT</u>	<u>HOMEWORK</u>
1.	ENGLISH	<p>1. Answer the following question in about 150 words.</p> <p>In the nuclear families of modern society, it is very rare to find the bond between children and grandparents. Highlight the importance and beauty of the bond with reference to the story “How I Taught My Grandmother to Read.”</p> <p>2. Answer the following question in about 20 words.</p> <p>What does the phrase “I gloom, I glance” suggest in the poem “The Brook”? What poetic device has been used in the above-mentioned phrase?</p> <p>3. Answer the following question in about 30 words.</p> <p>Infer the meaning of the phrase “eddying bays” as used in the poem and explain its significance.</p> <p>4. Project: Movie Time</p> <p>Names of the Movies:</p> <p>1. 777 Charlie</p> <p>2. Eight Below</p> <p>3. Hachi: A Dog’s Tale</p> <p>Choose any of the above-mentioned movies and write a review based on it. (50 words)</p>
2.	HINDI	<p>1. मोती और हीरा ने विपत्ति में एक-दूसरे का साथ कैसे दिया? इससे हमें क्या शिक्षा मिलती है?</p> <p>2. कहानी ‘दो बैलों की कथा’ के आधार पर सिद्ध कीजिए कि ‘संगठन में बल’ या ‘एकता में शक्ति’ होती है।</p> <p>3. कबीर के अनुसार लोग पक्ष-विपक्ष के कारण क्या भूल गए हैं?</p> <p>4. कबीर ने मानसरोवर किसे कहा है? हंस मानसरोवर छोड़कर अन्यत्र क्यों नहीं जाना चाहते?</p>

		<p>5. परियोजना कार्य- अपने पाठ्य पुस्तक के अतिरिक्त कबीरदास जी के 10 दोहों का संकलन कीजिए तथा कलात्मक ढंग से सजाइए। (¼ चार्ट पेपर में)</p>
3.	BENGALI	<p>১) প্রশ্নগুলির সঠিক উত্তর দাও। 1x5=5</p> <p>ক) সভ্যতার 'তৃষ্ণা-ক্ষুধা' বলতে কবি কী বুঝিয়েছেন?</p> <p>খ) 'খেয়া' কবিতায় 'দোঁহাপানে' বলতে কী বোঝানো হয়েছে?</p> <p>গ) অপু কার কাছে মহাভারতের গল্প শুনত? মহাভারতের কুরুক্ষেত্র যুদ্ধের কথা শুনে তার কী ধারণা হয়েছিল?</p> <p>ঘ) অর্জুনের রথের নাম কী?</p> <p>ঙ) চিনিবাস ময়রা কেন দুর্গাদের বাড়ির সামনে দাঁড়াত না?</p> <p>২) 'অপমানে দুঃখে সর্বজয়ার চোখে জল আসিল।' – প্রসঙ্গ উল্লেখ কর। 2x1=2</p> <p>৩) ব্যাখ্যা করঃ 'পৃথিবীতে কত দ্বন্দ্ব কত সর্বনাশ।' 3x1=3</p> <p>Project Work 5</p> <p>'ছুটি' গল্পটির একটি কমিক স্ট্রিপ প্রস্তুত কর।</p>
4.	MATHS	<p>Answer the following questions :</p> <p>1) If $x = (5 - 2\sqrt{6})$, then find the value of $(x^2 + \frac{1}{x^2})$. 2</p> <p>2) If $\frac{3+2\sqrt{5}}{3-2\sqrt{5}} = p + q\sqrt{5}$, then find the value of $11(p+q)$. 3</p> <p>3) ASSERTION AND REASON BASED QUESTION : 1</p> <p>Assertion (A) : Degree of a zero polynomial is not defined. Reason (R) : Degree of a non-zero constant polynomial is 0. Choose the correct option:</p> <p>A) Both Assertion (A) and Reason (R) are true and Reason(R) is the correct explanation of Assertion (A). B) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A). C) Assertion (A) is true but Reason (R) is false. D) Assertion (A) is false but Reason (R) is true</p> <p>4) CASE BASED QUESTION : 1x4 =4</p> <p>APPLICATIONS OF PARABOLAS - PROJECTILE MOTION :</p>

An object which is thrown or projected into the air, subject to only the acceleration of gravity is called a projectile, and its path is called its trajectory. This curved path was shown by Galileo to be a parabola. Parabola is represented by a polynomial. If the polynomial to represent the distance covered is $P(t) = -5t^2 + 40t + 1.2$, then answer the following questions:

- What is the degree of polynomial ?
- Find the height of the projectile 4 seconds after it is launched.
- Name the polynomial on the basis of number of terms.
- Name the polynomial on the basis of degree.

5)ACTIVITY :

- To represent the $\sqrt{10}$ by spiral method on number line.
- Mind Map on Polynomials.

*Use A4 sheet paper for Q/ Ans, Case Based Questions

*Use Coloured chart paper (one - fourth) for Activities

5.

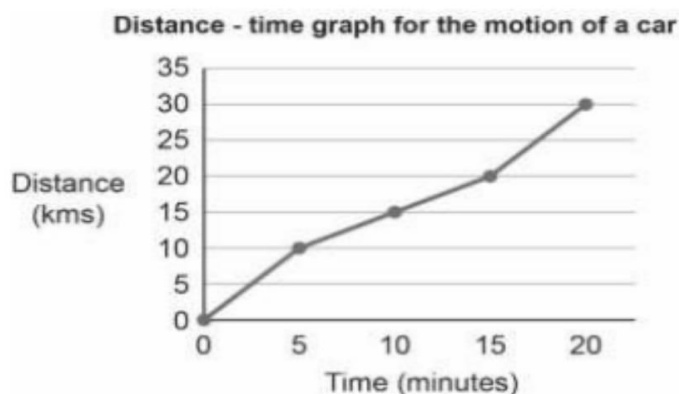
SCIENCE

PHYSICS:

(1 M)

1.

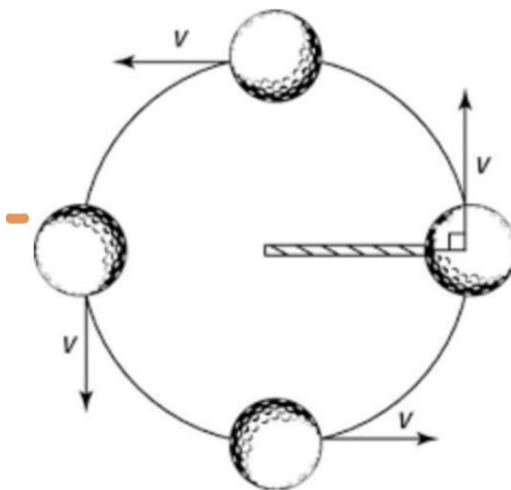
The graph below shows how the car travelled from house to school.



Did the car move with uniform motion from house to school? Explain.

2.

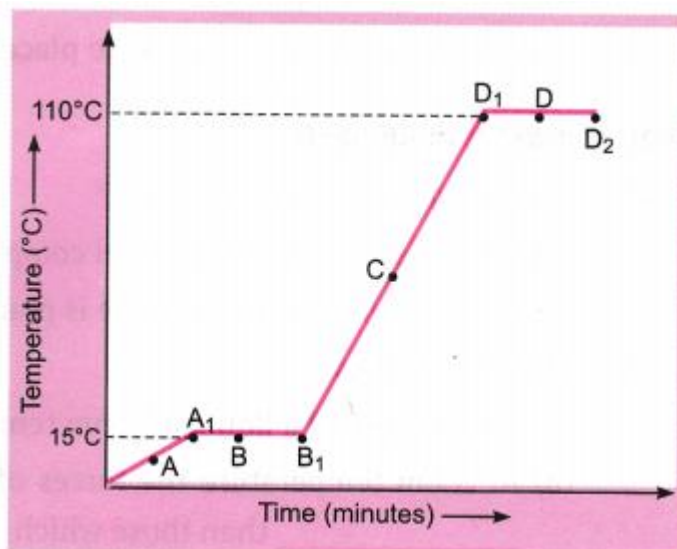
(2M)



What happens to speed, velocity acceleration when an object moves in a circle with uniform speed ?

CHEMISTRY:

The temperature-time graph given alongside shows the heating curve for pure wax.



From the graph answer the following:

- What is the physical state of the substance at the points A, B, C and D?
- Point out the melting point of the substance from the graph.
- Point out the boiling point of the substance from the graph.
- Which portions of the graph indicate that change of state is taking place?
- Name the terms used for heat absorbed during change of states involved in the above process. (3 marks)

		<p><u>BIOLOGY:</u> Answer the following questions: 1. 'A cell is the building block of an organism'. Justify the statement (2 marks) 2. 'Endocytosis is found only in animal cells'. Give reasons. (2 marks)</p> <p>Science Activity : Experiment: Preparation of stained temporary mounts of onion peels & to record observations and draw their labeled diagrams. To write the same use the following format in the practical notebook: 1. Aim 2. Materials Required 3. Procedure 4. Observation 5. Inference Note - Use DAV CAE Practical copy for completion of the practical's.</p>
6.	SOCIAL SCIENCE	<p><u>GEOGRAPHY</u></p> <p><u>Project on : "Disaster Management "</u> Topic: Natural Disaster: Earthquake in Nepal November 2023. Points to cover. 1) Introduction (Location and Date) 2) Details of the project. 3) Effects and Mitigation strategies. 4) Conclusion. Use a maximum of 4 pages of A4 size paper to complete the project work. Use maps and photographs as required.</p> <p><u>Answer the following questions:</u> 1) "Opening of the Suez canal has benefited India immensely." Justify this statement. 2) The central location of India at the head of the Indian Ocean is considered of great significance. Why?</p> <p><u>HISTORY AND CIVICS</u></p> <p>A. <u>TICK THE CORRECT OPTION:</u></p> <p>1. Assertion (A): Faced with the power of his revolting subjects, Louis XVI finally accorded recognition to the National Assembly and accepted the principle that his powers would from now on be checked by a constitution. Reason (R): On the night of 4 August 1789, the Assembly passed a decree abolishing the feudal system of obligations and taxes. a) Both Assertion (A) and Reason (R) are true and R is the correct explanation of A. b) Both Assertion (A) and Reason (R) are true but R is not the correct explanation of A. c) Assertion (A) is true but Reason (R) is false. d) Assertion (A) is false but Reason (R) is true.</p>

2. Assertion (A): Hereditary kings, like the king of Nepal or Saudi Arabia are democratic rulers.

Reason (R): In a democratic country, people have security of life and livelihood and there is free and fair election.

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

B. ANSWER THE FOLLOWING QUESTIONS:

1. Trace the peculiarity of the dress worn by the members of the Jacobin Club.
2. Identify the famous personality and write the title of the most popular book written by him. Analyze the theme of the book.



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

Democracy is considered to be the best form of government. It has rightly been said that it is a government of the people, by the people and for the people. People elect their own representatives who run the government. All citizens after attaining a certain age are granted the right to vote. In India, this age has been reduced to 18 so that the maximum number of young men and young women take an active part in politics. But it has brought responsibility also. Now we have to see that everyone makes proper use of his vote.

- a. What do you mean by Representative Democracy?
- b. Why are quality decisions a possibility in a democracy?

ECONOMICS

1. Can you think of one way the villagers can unite and avoid taking loans from unscrupulous money lender?
2. Discuss the impact of green Revolution on environment.
3. Land resource is fixed. Then, how can the total cultivable land and agricultural production be increased?
4. Discuss the role of land, labour, capital and enterprise in the production process.

		<p>5. Land distribution in Palampur is unequal. Do you agree. Give reason for your answer.</p> <p>6. Land, is passive resource _____ and _____ are needed to produce something from it.</p> <p>7. Talk to some old residents in your region and write a short report on the changes in irrigation and changes in production methods during the last 30 years.</p>
<p>8.</p>	<p>SANSKRIT</p>	<p><u>गतिविधि:</u> - मीन-आरेख माध्यमेन क्त्वा/तुमुन् प्रत्ययोयः प्रयोगं कुर्वन्तु।</p> <p>1. अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत-</p> <p>किन्तु बालस्य अत्र रक्षकः नास्ति तत् किं करोमि? भवतु, चिरकालपालितम् इमं पुत्रनिर्विशेषं नकुलं बालरक्षायां व्यवस्थाप्य गच्छामि। तथा कृत्वा गतः। ततस्तेन नकुलेन बालसमीपम् उपसर्पन् कृष्णसर्पः दृष्टः। स तं व्यापाद्य खण्डशः कृतवान्। अत्रान्तरे ब्राह्मणोऽपि श्राद्धं गृहीत्वा गृहम् उपावृत्तः। ब्राह्मणं दृष्ट्वा नकुलः रक्त-विलिस-मुख-पादः तस्य चरणयोः अलुठत्। विप्रः तथाविधं तं दृष्ट्वा बालकोऽनेन खादितः इति अवधार्य कोपात् नकुलं व्यापादितवान्।</p> <p>I. एकपदेन उत्तरत- 1 X1=1</p> <p>क) कम् दृष्ट्वा नकुलः अलुठत्?</p> <p>II. पूर्णवाक्येन उत्तरत- 2X1=2</p> <p>क) ब्राह्मणः किम् कृत्वा गृहम् उपावृत्तः?</p> <p>III. निर्देशानुसारम् उत्तरत- 1X2=2</p> <p>क) “बालस्य अत्र रक्षकः नास्ति” - अस्मिन् वाक्ये क्रियापदम् किम्?</p> <p>ख) “तस्य चरणयोः अलुठत्” - अस्मिन् वाक्ये चरणयोः पदे का विभक्तिः?</p> <p>4. भवान् सोहनः छात्रावासे वसति, भवान् च स्वदिनचर्याविषये पितरं प्रति पत्रं लिखति। मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयतु उत्तरपुस्तिकायां च पुनः लिखतु। ½ X10=5</p> <p style="text-align: right;">छात्रनिवासतः दिनाङ्कः -----</p> <p>पूजनीयः (i)----- अत्र कुशलं तत्रास्तु। मया भवतः पत्रं प्राप्तम्। मम अर्धवार्षिक परीक्षापरिणामः अतिशोभनः अस्ति। (ii)----- तु शतम् अङ्काः एव प्राप्ताः। अहम् (iii)----- पञ्चवादने उत्थाय पठामि। ततः सप्तवादने नित्यकर्म कृत्वा (iv)----- स्मरामि। सायम् उदयाने भ्रमणाय अपि गच्छामि। रात्रौ भोजनस्य पश्चात् (v)----- द्वादश-वादनपर्यन्तं पठामि। अहम् अत्र (vi)----- अस्मि। कोऽपि (vii) --</p>

----- मा कुरु, वार्षिकपरीक्षायाम् अपि शोभनैः अङ्कैः (viii) -----
 -----भविष्यामि इति (ix) ----- अस्ति । पूजनीयायै मात्रे नमः ।
 अनुजाय स्नेहः ।

भवदीयः प्रियपुत्रः (x)-----

मञ्जुषा- { पितृमहाभागः, नववादनतः, संस्कृतविषये, ईश्वरम्, आशा,
 सोहनः, चिन्ता, प्रातःकाले, स्वस्थः, उत्तीर्णः }

नोट : अवकाशदिवसस्य सर्वाणि गृहकार्याणि संस्कृत-अभ्यासपुस्तिकायाम्
 एव कर्तव्यानि ।

9.

A.I.

1. Match the following Column A Column B

Column A	Column B
1. Smart Mobility	i) Resources and Sustainability
2. Smart Environment	ii) Creativity and Social Capital
3. Smart People	iii) Infrastructure and Transport

2. Statement 1: The drone technology help farmers spot intrusions, crop diseases, predict the amount of crop production, and saves time and avoids the difficulties of physical manual inspections. **Statement 2:** The statement given above is an example of Natural Language Processing.

- i. Both Statement 1 and Statement 2 are correct
- ii. Both Statement 1 and Statement 2 are incorrect
- iii. Statement 2 is correct and Statement 1 is incorrect.
- iv. Statement 1 is correct and Statement 2 is incorrect

3. _____ is a branch of artificial intelligence that enables computers to learn from data by themselves.

- i. Deep Learning
- ii. Computer Vision
- iii. Natural Learning
- iv. Machine Learning

4. Which of the following is True regarding Smart Cities?

- i. Their concept developed for taking advantage of the AI technology.
- ii. The latest phase in their development involves better integration of citizens and community.
- iii. Smart healthcare management is an essential component of smart cities
- iv. All the buildings in the smart city are smart.

5.Assertion: (A): Natural Language Generation is a component of NLP which produce meaningful phrases and sentences in the form of natural language.

Reason (R): NLP is the domain of AI which deals with natural languages by deciding correct words, linking into meaningful phrases, forming sentences etc.

- (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.

6. Assertion: "Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems."

Reasoning: AI systems mimic human intelligence. AI algorithms, are designed to process data, learn from it, and make decisions or predictions. These algorithms mimic human cognitive functions such as learning, reasoning, problem-solving, perception, and language understanding.

- i. Both A and R are correct, and R is the correct explanation of A.
- ii. Both A and R are correct, and R is not the correct explanation of A.
- iii. A is correct, but R is not correct.
- iv. A is not correct, but R is correct.

7. AI is altering how we live by transforming our living , working and home environment .Buildings are growing smarter, utilizing AI technology to enhance the lives of those who reside inside. To develop Smart cities, these structures are interconnected. Describe how Smart technologies have been incorporated into everyday life.

8. With so many people using electricity on a daily basis— whether it is to charge their cell phones or to use their TV—a lot of cables (made of plastic) must be used. Plastic destroys our ecosystem, yet we continue to produce it. Indispensable as it may seem, it has an adverse effect on the environment. The manufacturing of plastic is not exactly ecofriendly. With a little help from modern technology Elif discovered a way to help curb our plastic problem. She used banana peels as the main ingredient to

		<p>make bio-plastics. Which of the Sustainable Development Goal does this scenario relate to?</p> <ul style="list-style-type: none">i. Life on landii. Responsible consumption, and productioniii. Affordable and clean energyiv. Sustainable cities and communities <p>9. While designing a surveillance system for the premises where a costly diamond was to be kept for exhibition, we do the following tasks.</p> <ul style="list-style-type: none">i. Get photographs of all the authorized people.ii. Get photographs of all the unauthorized people.iii. Get photographs of the premises.iv. Get photographs of all the visitors. <p>10. An application lets you search what you see, get things done faster and understand the world around you – using just your camera or a photo. Which domain does this app belong to?</p> <ul style="list-style-type: none">i. Natural Language Processingii. Data Sciencesiii. Computer Visioniv. Artificial Language Processing
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