केन्द्रीय विद्यालय आई.आई.टी.तिरुपति
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AUTUMN BREAK HOLIDAYS HOMEWORK (2026-27)

Class: VII

Subject: Maths

1. Write 80645219 in Words Using Indian and American number system.
2. Find the difference between 8,00,000 and 5,67,845.
3. Simplify the following: a) 48-(12+8) ÷4 b) 125-(25+15) X2
4. Arrange in ascending order: 0.7, 0.07, 0.77, 0.707, 7.07
5. Write an algebraic expression: a) 8 more than a number X b) 5 times a number Y less than 9
6. Identify the variable, coefficient and constant. 7p + 9.
7. Draw a pair of parallel lines cut by a transversal and label the angles.
8. Identify parallel and perpendicular lines in five objects around your home.
9. Construct a triangle using a ruler and protractor with angles 50° and 60°, Measure the third angle.
10. Simplify: a) $\frac{3}{4}$ X $\frac{2}{5}$ b) $\frac{7}{8}$ - $\frac{1}{4}$ c) $\frac{5}{6} \div \frac{2}{5}$ d) $\frac{2}{5}$ + $\frac{3}{5}$

Subject: Science

1. How does observation help scientists understand the world?
2. Why should scientific Conclusions be based on evidence?
3. What are acidic, basic and neutral Substances?
4. what is an indicator? Name two natural indicators.
5. Difference between conductors and insulators with two examples each.
6. Name the main components of an electric circuit.
7. Give three examples each of metals and non-metals
8. what is a physical change? What is a chemical change?
9. Give two examples of i) reversible changes ii) irreversible changes.
10. Mention five healthy habits that adolescents should follow.

Project work:

1. Prepare a chart showing five physical changes and five chemical changes with suitable pictures or drawing
2. Design an awareness poster highlighting balanced nutrition, personal hygiene, Physical activity and adequate Sleep.

Subject: Hindi

१) शरद ऋतु की छुट्टियों पर मित्र को पत्र लेखन।

१) अनुच्छेदलेखन - शरद ऋतु की छुट्टियाँ।

३) दशहरा पर दो मित्रों के बीच संवादलेखन।

४) 1-100 Numbers in Hindi.

Subject: Sanskrit

1. Lesson 8 हितं मनोहारि च दुर्लभं वचः- श्लोकाः एवं भावार्थः in Notebook.

2. Text book exercises 1,4,5,6,7, 8 in Text book with answer.

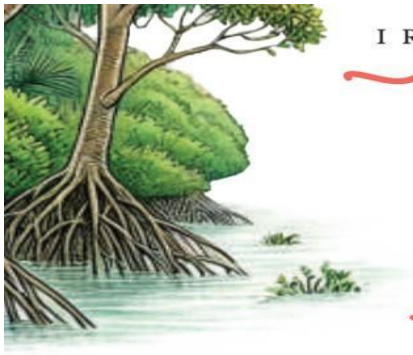
3. Text book exercises 2, 3 in Class work with answer.

4. Write शब्दरूप of राम, फल, रमा, नदी in class work.

Subject – English

Write the answers of the questions from the given pages of your ENGLISH TEXTBOOK:

Pg 126 & 127



I Read the extracts given below and answer the questions that follow.

1. *Amma tells me that places like the Sundarbans are called wetlands. I never knew such a place existed, and that it was possible for trees called mangroves to grow in seawater! But Amma is sad about how much this place floods today.*

We also saw crocodiles and a lonely snake while boating. I hope they don't follow us home.

How is everyone? Are you missing me yet?

(i) What feeling does Shaana most likely experience when she says, "I never knew such a place existed..."?

A. pride B. hope C. relief D. wonder

(ii) Complete the following sentence with a suitable reason.

Amma is sad about the frequent flooding in Sundarbans because _____.

(iii) Select the evidence from the text that reflects a feeling of the speaker's slight nervousness.

(iv) Select the option that applies to both the Assertion and the Reason.

Assertion : The speaker is missing her friends.

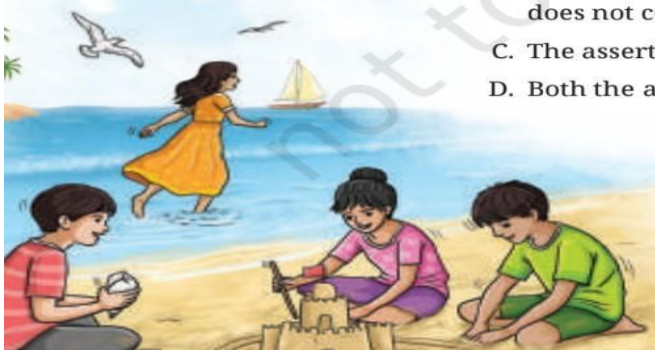
Reason : The speaker wishes to know the well-being of her friends.

A. Both the assertion and the reason are true, and the reason correctly explains the assertion.

B. Both the assertion and the reason are true, but the reason does not correctly explain the assertion.

C. The assertion is true, but the reason is false.

D. Both the assertion and the reason are false.



2. *Amma and Appa are fast asleep, and I should be sleeping too, but I just love looking out of the window. I think we're in the southwest part of the country, in Goa, and you won't believe how nice the plateaus look. There are so many hills here, and beaches too.*

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There are also a lot of tunnels that the train goes through. I used to be afraid of tunnels, but I'm not any more. Someday, I wish we could all go on a tour of the plateaus.

(i) Complete the sentence with a suitable reason.

The speaker chooses to stay awake because _____.

(ii) What does the speaker mean by saying, 'You won't believe how nice the plateaus look'?

(iii) What has been the change in the speaker's attitude towards tunnels?

A. from fear to comfort
B. from courage to confidence
C. from doubt to clarity
D. from fascination to delight

(iv) Fill in the blanks with the correct option from those given in the brackets.

The speaker's wish to share the experience of touring the plateaus with others indicates her _____ (ability to communicate/sense of connection) as well as the value she places on _____ (shared experiences/updating information) with her peers.

II Answer the following questions.

1. Shaana mentions that she used to be afraid of tunnels. What could have been the most likely reason for her to be scared of tunnels?
2. Do you think Shaana's Appa and Amma enjoyed themselves, just like children do? Support your answer with evidence from the text.
3. Shaana mentions less snow in the glaciers and more flooding in the Sundarbans. Explain what these observations indicate.
4. Shaana's visits to different parts of the country highlight the diversity of India's geography. Support this statement with evidence from the text.
5. How does Shaana use language to convey her excitement, curiosity, and sometimes her fears about the places she visits?
6. What might Shaana have learnt from her travels across India? How would it impact her understanding of the country?
7. What could be the author's purpose of presenting the text in the form of postcards?

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Subject - Social Science

Write the answers of the following questions:(In your S.SC NOTEBOOK)

1. What is intercropping?
2. What is grafting?
3. Describe different types of crops (sowing, growing, harvesting time and examples)
4. What is humus?
5. Mention the different types of soils in India.
6. What do you understand by soil conservation?
7. What were the traditional methods for soil conservation?
8. What are the contemporary approaches for soil conservation?
9. Describe different types of irrigation systems.

VE PROJECTS -

1. Make one handmade model of nest and write the process in A4 size paper.(Take help from pg 42,43 of VE TEXTBOOK)
2. Make one handmade puppet and write the process in A4 size paper. (You can take help from pg 121-127 of VE TEXTBOOK)

SUBJECT: ARTIFICIAL INTELLIGENCE

1.Which AI technique predicts numerical values?
a) Classification b) Clustering c) Regression d) Detection

2.Clustering is mainly used to:
a) Predict marks b) Group similar data c) Translate language d) Detect spam

3.The part of a dataset used for the final check of an AI model is the _____.
(a) Training dataset (b) Validation dataset (c) Test dataset (d) Hybrid dataset

4. AI can look at _____ to find health problems quickly.
(a) X-ray and MRI images (b) Newspapers (c) Maps (d) Emails

5.AI improves safety by _____.
(a) Making noise (b) Increasing waste (c) Warning people about dangers (d) Slowing machines

6.A piece of information in a dataset is called_____.

7. NLP helps machines understand human _____.

8. Stemming reduces each word to its _____ form.

9. AI protects online information by finding fraud and _____ attempts.

10.Traffic control systems use _____ and _____ to monitor vehicles on road.

11.Computer Vision	**a. Warn us if the heart rate is not normal**
12. Classification	**b. Finding patterns and making predictions using data**
13. Fitness bands	**c. Learning apps that understand each student**
14. Data Science	**d. Helping computers see images and videos**
15. Education	**e. Email → Spam / Not Spam**

STATE TRUE OR FALSE

16. Automation means a machine performs a task by following fixed instructions.

17. A feedback loop means the AI is never improved with new data.

18. AI cannot help in online classes.

19. Self-driving cars use AI to see obstacles and read traffic signs.

20. AI in robotic surgery makes operations less safe.

1. Name any two fields where AI is used?

2.What is data?

3.What is Artificial Intelligence?

4. What is responsible use of technology? Write any two things we should do.

5. What is a dataset? Write the types of datasets.

6. What is Computer Vision? Write any two examples.

7. How does AI improve communication?

8. Mention two advantages of using AI in industries.

9. What are the three important AI domains? Explain each with two examples.

10. Explain how Data Science is used in any five industries.

11. How does AI help in healthcare? Explain how it helps in robotic surgery