

KENDRIYA VIDYALAYA GUNUPUR

AUTUMN HOLIDAY HOMEWORK

Subjects – SST Class-VIII

1. Explain the political and social conditions of the Deccan that led to the rise of the Marathas in the 17th century.
2. Describe Shivaji's military organization. How did the guerilla warfare system strengthen the Maratha power?
3. Evaluate the role of the Maratha forts in the rise of Maratha power. Give examples of some important forts.
4. Describe Shivaji's relations with the Mughals. How did his conflicts with Aurangzeb shape the Maratha struggle for independence?
5. How did the Marathas become the strongest regional power after the decline of the Mughal Empires?
6. Describe the Maratha administration of revenue. What was Chauth and Sardeshmukhi and how did they strengthen Maratha finances?
7. Examine the causes of the conflict between the Marathas and the Mughals. How did these conflicts lead to Maratha expansion?
8. Describe the Marathas' expansion into North India. How did they attempt to establish supremacy over the Mughal throne?
9. Critically analyze the strengths and weaknesses of the Maratha power. How did their rise prepare the ground for future conflicts with the British?
10. Explain the role of the Peshwas in strengthening and expanding the Maratha Empire after Shivaji.

केन्द्रीयविद्यालय: गुणपुर:

कक्षा – अष्टमी - 8

विषय- संस्कृतम्

अवकाश-गृहकार्यम् 2025-2026

1. द्वितीय-आवधिक-परीक्षायाः कृते अधोलिखितानाम् पाठानाम् अभ्यास-कार्यस्य मौखिकं लिखितम् च पुनरावृत्तिं कुरुत। / आवधिक परीक्षा-2 के लिए नीचे लिखे गए पाठों का अभ्यास कार्य (नोटबुक तथा पाठ्यपुस्तक दीपकम् से) याद करो तथा लिखित अभ्यास करो। परीक्षा हेतु पाठ्यक्रम पाठ संख्या नाम च-
2. धातुरूपलेखनं कण्ठस्थीकरणं च: कुर्वन्तु- / धातुरूप लिखें और याद करें-
भू, पठ्, स्था, कृ, गम्(गच्छ) (पञ्चलकारेषु)
3. शब्दरूपलेखनं कण्ठस्थीकरणं च: कुर्वन्तु- / शब्दरूप लिखें और याद करें-
एकम्, द्वि, त्रि, चतुः, किम् (त्रिषु लिङ्गेषु), नदी, अस्मद्, युष्मद्, मातृ, पितृ, एतद्
4. लट्-लकारे प्रथमपुरुषे, मध्यपुरुषे, उत्तमपुरुषे च पञ्च-पञ्च वाक्यानि (5+5+5=15) लिखन्तु। तेषां वाक्यानां च लृट्-लकारे, लङ्-लकारे च परिवर्तनं कुर्वन्तु। / लट्-लकार प्रथमपुरुष, मध्यपुरुष और उत्तमपुरुष में पांच-पांच वाक्य (5+5+5=15) लिखिए। उन वाक्यों को लृट् लकार तथा लङ्-लकार में परिवर्तन भी कीजिए।
5. प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठं पठन्तु लिखन्तु च। / प्रतिदिन संस्कृत पाठ्यपुस्तक का एक पृष्ठ पढ़ें और लिखें।

KENDRIYA VIDYALAYA GUNUPUR
HOLIDAY HOMEWORK
SUBJECT:ARTIFICIAL INTELLIGENCE
CLASS:VIII

1. What is Artificial Intelligence (AI)?
2. Name two goals of Artificial Intelligence.
3. . What is machine learning in AI?
4. . Define Natural Language Processing (NLP).
5. . Mention any two real-life applications of AI.
6. . What is the Turing Test?
7. What is an intelligent agent in AI?
8. Define supervised learning.
9. . What is the difference between AI and human intelligence
10. What is robotics in AI .
11. Name any two programming languages commonly used in AI.
12. What is deep learning?.
13. What are the types of AI?
- 14.. What is expert system in AI?
15. How does AI help in healthcare?
16. Define unsupervised learning.
17. What is computer vision in AI?
18. Mention two limitations of AI.
19. What is reinforcement learning?
20. Why is AI important in today's world?

Prepare A Smart Home Model In A4 Sheet

KENDRIYA VIDYALAYA GUNUPUR
AUTUM – BREAK HOME WORK
CLASS – VI
ENGLISH

SECTION A: READING COMPREHENSION

1. Unseen Passage (Factual)

Read the passage carefully and answer the questions:

Plastic waste has become one of the biggest environmental challenges in the world. Every year, millions of tonnes of plastic end up in oceans, rivers, and landfills. Plastic takes hundreds of years to decompose, causing harm to animals and polluting the environment. Many countries are banning single-use plastics and encouraging recycling. Individuals can also help by carrying cloth bags, using steel bottles, and avoiding unnecessary plastic packaging. Collective effort is the only way to reduce this problem.

Questions (10 marks):

- a) What is one of the biggest environmental challenges?
- b) Where does plastic waste end up every year?
- c) How long does plastic take to decompose?
- d) What harm does plastic cause?
- e) What are countries doing to fight plastic pollution?
- f) What is meant by ‘single-use plastics’?
- g) List two alternatives to plastic mentioned in the passage.
- h) How can individuals help reduce plastic waste?
- i) Give a suitable title to the passage.
- j) Write one measure you follow to reduce plastic use.

2. Unseen Passage (Descriptive)

Read the passage carefully and answer the questions:

The hill station of Ooty is known as the “Queen of the Nilgiris.” Surrounded by lush green tea gardens, tall eucalyptus trees, and mist-covered mountains, Ooty is a favourite tourist destination. The cool climate, peaceful lakes, and beautiful botanical gardens make it a perfect getaway from the heat of the plains. Horse rides, toy train journeys, and homemade chocolates add charm to the place. Tourists from all over the world visit Ooty to enjoy its natural beauty and calm atmosphere.

Questions (10 marks):

- a) What is Ooty called?
- b) Where is Ooty located?
- c) Why is Ooty a favourite tourist destination?

- d) Mention two natural attractions of Ooty.
- e) What makes the climate of Ooty special?
- f) Name two activities tourists enjoy in Ooty.
- g) What adds to the charm of Ooty?
- h) Why do people visit Ooty?
- i) Give a suitable title for the passage.
- j) Write two sentences describing a hill station you have visited.

SECTION B: WRITING SKILLS

1. **Notice** – Your school is organizing a Science Exhibition. Draft a notice informing students of classes VI–X to participate.
2. **Diary Entry** – Write a diary entry about a day when you learned an important lesson from your mistake.
3. **Message** – You received a call from your friend’s father asking him to reach home early. Leave a message for your friend.
4. **Formal Letter** – Write a letter to the Principal requesting permission to organize a charity drive in your school.
5. **Informal Letter** – Write a letter to your cousin describing how you spent your summer holidays.

SECTION C: GRAMMAR PRACTICE

1. Tenses – Fill in the blanks

- (i) She _____ (go) to school every day.
- (ii) They _____ (watch) a movie yesterday.
- (iii) By this time tomorrow, we _____ (reach) Delhi.
- (iv) I _____ (read) when the phone rang.
- (v) He usually _____ (play) cricket in the evening.

2. Parts of Speech – Identify

Underline and name the part of speech of the underlined words:

- (i) She runs quickly.
- (ii) The little boy is sleeping.
- (iii) Honesty is the best policy.
- (iv) They arrived after the show.
- (v) The cat jumped over the wall.

3. Direct and Indirect Speech – Fill in the blanks

- (i) He said, “I am tired.” → He said that he _____ tired.
- (ii) She said, “Where are you going?” → She asked where I _____ going.

- (iii) They said, “We have finished our work.” → They said that they _____ finished their work.
(iv) Rohan said, “Will you help me?” → Rohan asked if I _____ help him.
(v) She said, “Don’t touch it.” → She told me _____ touch it.

4. Rearranging Sentences

Rearrange the words to make meaningful sentences:

- (i) beautiful / garden / flowers / in / the / are / there / many
(ii) quickly / the / ran / rabbit
(iii) friends / playing / in / are / park / the / my
(iv) the / teacher / book / reading / is / a
(v) cricket / likes / playing / he

✦✦ Instructions:

- Attempt all questions.
- Answers should be written neatly in your holiday homework notebook.
- Submit your homework on the reopening day.

KENDRIYA VIDYALAYA GUNUPUR
AUTUMN BREAK HOLIDAY HOMEWORK
CLASS – VIII **SUBJECT – MATHS**

Section 1: A Square and A Cube

1. List the first 15 perfect squares and the first 10 perfect cubes. Observe and note any interesting patterns, such as the digits in the units place, or how the difference between consecutive squares/cubes develops.
2. By successive subtraction of odd numbers from 49, show that it is a perfect square.
3. A number ends in '8'.
 - Can it be a perfect square? Explain with examples.
 - Can it be a perfect cube? Give examples.
4. Find the smallest number which, when multiplied by 90, results in a perfect square. Also, find the square root of the resulting number.
5. Consider the cube number 1331. Without actual calculation, guess its cube root based on patterns of cubes of 2-digit numbers.
6. **Activity:** Create a "Square Pair" sequence with numbers 1 to 17—arrange them so each adjacent pair sums to a perfect square. Can you do a similar arrangement for numbers 1 to 32 in a circle?

Section 2: Power Play

7. Take a sheet of paper and try folding it as many times as possible. Record the thickness after each fold up to the number you can manage. Why does the sheet get so thick quickly? Calculate the thickness after 10 folds if the starting thickness was 0.001 cm.
8. Suppose you have to open a digital lock with a 4-digit passcode (using 0-9, repetition allowed). How many possible codes are there? What about a 5-digit lock with alphabets A-Z (uppercase) and digits 0-9, each position can be any character or digit? Show your calculations.
9. Write the following as products of their prime factors in exponential form:
 - a) 540
 - b) 648
10. Visualise and explain with an example how exponential growth differs from linear growth. Relate it to any real-life context you have noticed.
11. Express the number 32400 as a product of its prime factors, using exponential form.
12. **Project/Activity:** Use newspapers or internet sources to collect any 5 facts involving large numbers (population of a city, animals, universe facts, etc.). Write each in scientific notation and regular number form. Briefly explain why scientific notation is useful.

Section 3: A Story of Numbers

13. Summarize the main differences between Roman numerals and the Hindu-Arabic number system. Give examples by writing the number 2367 in both systems.
14. Create your own number system for numbers 1–10 using any shapes, objects, or letters. Demonstrate how you would add 4 and 5 in your system.
15. The Mayan and Mesopotamian civilizations used different number systems. Research and draw or describe the symbols they used for 1, 10 (or 20), 100 (or 360/3600), and 1000 in either civilization.
16. If humans had only 8 fingers, what would the number 25 look like in a base 8 system? Show your conversion steps.
17. **Higher Order Thinking:** Why is the introduction of zero considered a turning point in the evolution of number systems? Illustrate with two concrete examples from daily life or science.

KENDRIYA VIDYALAYA GUNUPUR

HOLIDAY HOMEWORK

Subjects – Science (Subject code – 086)

Class-VIII

Health: The ultimate treasure

1. What do you understand by the term health?
2. Mention any three determinants of good health.
3. Differentiate between personal hygiene and community hygiene.
4. Why is balanced diet necessary for good health?
5. Name two diseases caused by deficiency of vitamins.
6. What is the role of exercise in maintaining health?
7. Define immunity.
8. What is the importance of clean drinking water?
9. Give two examples each of communicable and non-communicable diseases.
10. What is the role of vaccination in maintaining health?

Long Answer Questions

1. Explain the relationship between health, nutrition and hygiene.
2. Discuss the role of immunity and antibodies in protecting our body?
3. Write in detail about chronic diseases and deficiency diseases with examples.
4. How do environmental cleanliness and sanitation contribute to health?
5. Describe five habits that help in maintaining good health.
6. “Health is not merely the absence of disease but a state of complete physical, mental and social well-being.” – Explain this statement.

7. Differentiate between infectious diseases and non-infectious diseases with examples.
8. Explain how community health programmes help in improving health of people.
9. How do lifestyle choices like junk food, smoking and lack of exercise affect our health?
10. Describe the importance of mental health along with physical health.

Electricity :Magnetic and Heating effects

1. What is an electric circuit? Draw a simple diagram of a closed circuit.
2. Define conductors and insulators with two examples each.
3. What is the difference between a cell and a battery?
4. Why do bulbs glow only when the circuit is complete?
5. What is a fuse? How does it work in an electric circuit?
6. Write two differences between series and parallel connection.
7. Why should electrical appliances be connected in parallel?
8. What safety measures should be taken while handling electricity?

Magnetic effect of electric current

1. State Oersted's experiment. What did it show about the relation between electricity and magnetism?
2. Draw the pattern of magnetic field lines around a bar magnet.
3. What happens when current flows through a straight conductor?
4. Explain why a current-carrying coil behaves like a magnet.
5. What is an electromagnet? Write two uses of electromagnets.
6. Distinguish between permanent magnets and electromagnets.
7. How does an electric bell work? Explain with the help of a diagram.
8. Why are electromagnets preferred over permanent magnets in cranes?

Heating Effects of Electric Current

1. What is the heating effect of electric current? Give an example.
2. State Joule's law of heating.
3. Why does a fuse wire melt when current increases suddenly?

4. List two advantages and two disadvantages of the heating effect of current.
5. Give two household devices that work on the heating effect of current.
6. Why is tungsten used as the filament in an electric bulb?
7. Why are electric wires made of copper and not tungsten?
8. Why does an electric iron become hot when current is passed through it?

शरदकालीन अवकाश गृहकार्य

कक्षा-8

- ☒ सभी प्रश्न करने अनिवार्य हैं।
- ☒ दिए गए प्रत्येक कार्य को स्क्रेपबुक में ही करना सुनिश्चित करें।
- ☒ अपनी स्क्रेपबुक को अच्छे से कवर करके लाएं।

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1. "मत बांधो" कविता में सपनों की बात की गई है। आपका कौन सा सपना ऐसा है जो यदि सच हो जाए तो वह दूसरों की सहायता कर सकता है? उसके विषय में बताते हुए स्क्रेपबुक में लिखें।
 2. सोचो और लिखो कि जो व्यक्ति देख पाने में सक्षम नहीं है आप उन्हें निम्नलिखित स्थितियों का अनुभव कैसे करवा सकते हैं?:-
अ) वर्षा की बूंदों का
ब) धुएं के उड़ने का
स) खेल-खेल में रोमांच और मजे का
 3. आग, बाढ़ और भूकंप जैसी आपदाएं अचानक आ जाती हैं, सही जानकारी से आपदाओं की स्थिति में बचाव संभव हो सकता है-
(अगर ऐसी कोई एक आपदा आपके पास आ जाए तो आप उस समय क्या करोगी/करोगे। एक सूची और चित्र आधारित योजना तैयार करके स्क्रेपबुक में लिखें।)
 4. पृष्ठ संख्या 102 पर बहुत से शिल्प दिए गए हैं...इन शिल्पों का अर्थ गूगल से समझकर कोई भी एक वस्तु बनाकर लाएं।
 5. "विराम चिह्नों" से संबंधित एक अच्छा सा(पेपर कटिंग और ड्राइंग का प्रयोग करके) चार्ट बनाएं।