



Class: VIII

विषय -हिन्दी

(1) निम्नलिखित प्रश्नों के उत्तर दें-

- (क) शिव मंगल सिंह 'सुमन' के विषय में आठ पंक्तियाँ लिखें।
- (ख) आपके जीवन का असल धन क्या है? स्पष्ट करें।
- (ग) 'हम पंछी उन्मुक्त गगन' के कविता का सारांश चार पंक्तियों में स्पष्ट करें।
- (घ) 'दारा' का चरित्र -चित्रण पाँच पंक्तियों में करें।
- (5) पाठ 'हम पंछी उन्मुक्त गगन के' में आए, चार अनुस्वार तथा चार अनुनासिक शब्द लिखें।

SCIENCE

Chemistry

1. Collect or draw pictures of different sources of energy (such as solar, wind, hydro, coal, petroleum, etc.) and paste them in your scrapbook. Write: one advantage and one disadvantage of each.
2. Prepare a colourful and creative mind map on the topic "Sources of Energy" on an A4 size sheet.
3. Observe your home and nearby surroundings carefully.

List all the energy sources being used. Classify them into Renewable sources and Non-renewable sources.

PHYSICS

Activity Based Project: "Forces Around Me"

Task:1. Click 5 photographs of different activities done by you that show each type of force (such as muscular, frictional, gravitational, electrostatic, magnetic).

Paste them on A4 sheet.

•Write below each picture:

Activity Name

Type of Force

Explanation (2-3 lines)

2. Create a short story of a superhero who uses all the above forces to help people and solve real-life problems.

BIOLOGY

1. Identify seven medicinal plants (like Neem, Tulsi, Aloe vera) and document their health benefits and uses.
2. Create a 3d model of plant cell or animal cell using household materials like clay or recycled items.

SOCIAL SCIENCE

Q 1. Prepare a project report on the topic - 'Sustainable Development - The need of the hour.'

In A4 Size paper

Minimum 10 pages

In your own handwriting

Use of data, figure and statistical diagrams to explain the topic in a better way.

Q.2. On a full size chart paper write Preamble of Indian Constitution and also learn the important features.

Q.3. Collect images of important freedom fighters of modern History, paste the images on a full size chart paper and also explain their contribution in brief.

MATHEMATICS

Unit: Squares, Square Roots, Cubes and Cube Roots

Case-Based Questions

Case 1: School Parade Arrangement

During Republic Day practice, 4225 students of a school are arranged in rows such that the number of rows equals the number of students in each row.

- (a) Find how many students form the perfect square arrangement.**
- (b) What is the number of students in each row?**
- (c) If 100 more students join, will a perfect square arrangement be possible? Give reason.**

Case 2: Tiles for a Courtyard

A school courtyard is to be tiled with square tiles. The area of the courtyard is 3249 m². Each tile is 1 m².

- (a) How many tiles are required to cover the courtyard completely?**
- (b) Find the length of one side of the square courtyard.**
- (c) If the school wants to leave a 1 m wide border around the courtyard, find the number of tiles needed for the border.**

Case 3: Garden Path Design

In a garden, 6084 plants are to be planted in equal rows and columns to form a square.

- (a) How many plants are arranged in the square?**
- (b) Find the number of plants in each row.**
- (c) If 4 plants are damaged and removed, find the nearest perfect square arrangement possible and how many plants will be left out.**

Case 4: Storage Boxes

A warehouse stores 1728 identical cubical boxes of side 10 cm. All boxes are arranged to form one big cube.

- (a) Find the volume of the big cube formed.
- (b) What is the side length of the big cube in cm?
- (c) If each small box costs ₹15, find the total cost of boxes along one edge of the big cube.

Case 5: Building Blocks Activity

In a Std II activity, 3375 building blocks are given to students. They are asked to arrange them to make the largest possible cube.

- (a) Find the number of blocks used to form the cube.
- (b) Find the number of blocks along one edge of the cube.
- (c) How many blocks will be left unused? If they are used to make a smaller cube, what will be its edge length?

Case 6: Water Tank Filling

A cubical water tank has a volume of 6859 m³.

- (a) Find the length of one side of the tank.
- (b) If the tank is filled at 343 m³ per hour, how many hours will it take to fill it completely?
- (c) If the tank's side is increased by 2 m, find the new volume and by how much it increases.

Assertion-Reason Questions (Q. 7–15)

Directions: In each of the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option:

- (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

7. Squares & Square Roots

Assertion (A): 121 is a perfect square.

Reason (R): A perfect square is obtained by multiplying an integer by itself.

(a) / (b) / (c) / (d):

8. Squares & Square Roots

Assertion (A): Between 64 and 81 there are 16 non-square numbers.

Reason (R): Between n^2 and $(n+1)^2$ there are $2n$ non-square numbers.

(a) / (b) / (c) / (d): _____

9. Squares & Square Roots

Assertion (A): The square root of 225 is 15.

Reason (R): The square root of a number is a value that, when multiplied by itself, gives the original number.

(a) / (b) / (c) / (d): _____

10. Squares & Square Roots

Assertion (A): 50 is a perfect square.

Reason (R): A number ending with 2, 3, 7, or 8 cannot be a perfect square.

(a) / (b) / (c) / (d): _____

11. Cubes & Cube Roots

Assertion (A): 216 is a perfect cube.

Reason (R): A perfect cube is a number obtained by multiplying an integer by itself three times.

(a) / (b) / (c) / (d): _____

12. Cubes & Cube Roots

Assertion (A): The cube root of 1000 is 10.

Reason (R): A perfect cube whose cube root is an integer must be a three-digit number.

(a) / (b) / (c) / (d): _____

13. Cubes & Cube Roots

Assertion (A): The cube root of 343 is 7.

Reason (R): The cube root of a number is a value that, when multiplied by itself three times, gives the original number.

(a) / (b) / (c) / (d): _____

14. Cubes & Cube Roots

Assertion (A): 27 has a real cube root.

Reason (R): The cube root of a negative number is always negative.

(a) / (b) / (c) / (d): _____

15. Mixed Concept

Assertion (A): 64 is both a perfect square and a perfect cube.

Reason (R): $64 = 8^2 = 4^3$, so it satisfies both definitions.

(a) / (b) / (c) / (d): _____

Instructions for Students

- Solve all Case-Based and Assertion-Reason questions in a separate thin test notebook.
- Show all steps clearly.

- Underline or box your final answers.

- Submit your Holiday Homework on the first day after vacation to get it checked.

विषय- संस्कृत

व्याकरण अभ्यास: दीर्घ, गुण, यण, वृद्धि और 'म' स्थान पर अनुस्वार (अनुस्वारस्य नियमः) की संधियों के दस-दस उदाहरण लिखकर अभ्यास करें।

संख्या ज्ञान: १ से १०० तक की गिनती (संस्कृत में) लिखकर याद करें।

परियोजना कार्य (Project Work): 'वसुधैव कुटुम्बकम्' विषय पर आधारित एक भित्ति-चित्र (Wall Art/Poster) चार्ट पेपर पर बनाएं।

"अस्मद्", "युष्मद्" राम, लता, फल, के' शब्दरूप लिखें

गम् धातु, खाद् धातु पांच लकार (लट्, लृट्, लोट्, लङ्, च विधिलिङ्ङ्ग)

ENGLISH

1. You are Sonali/ Soham, the head girl/head boy of Golden Leaf Public School, Mumbai. Draft a notice in not more than 50 words informing the students about an Inter School Debate Competition organised by your school. Invent all the necessary details.

2. Write an email to your friend describing your favourite hobby and why you enjoy it in not more than 50 words. Include details about how you got started and any memorable experiences you've had while pursuing this hobby.

3. Rearrange the following words/phrases into meaningful sentences.

(a) exercise/just/doesn't/regular/physical/build muscles/ keep weight/ and/also helps / in check/it

(b) protects memory/ it also/thinking/ and / skills

(c) helps improve/ blood vessels/health/exercise/ blood / and / flow

(d) helps/ with/the activity/ brain cells / of/ and also helps reduce/ the risk/ brain inflammation/ of

(Question no. 1, 2, and 3 to be done in copy of English)

4. Make a comic strip of the chapter 'The Fun They Had'. (A4 size paper)

COMPUTER SCIENCE

Name: _____ Roll: _____ Sec.: _____

Q1. Draw or paste the following:

- A. Shield Twisted Pair**
- B. Unshielded Twisted Pair**
- C. Coaxial Cable**
- D. Fiber Optic Cable**

Q2. Draw and describe different types of Network.

- A. Local Area Network**
- B. Metropolitan Area Network**
- C. Wide Area Network**

NOTE: The holiday home work must be done in separate Drawing Sheets (A4 Size), piled - up and stapled together with this first page of the Question paper filled with your name, roll no. and sec.
