

Class : IX

---

**SUBJECT: ENGLISH**

- 1. Taking help from the information given below make a diary entry in about 100 -120 words describing the horrible experience that you had when your shoes and the main bag were stolen during a railway journey.**

Travelling by train... got admission in Delhi... College of Engineering... going to take admission

..... quite a pleasant journey.... had a nice sleep.... Delhi was quite near.... I got up to wear my shoes...were stolen... the main bag missing... documents and money.... no money.... called a relative.... received help....things were restored.

- 2. Answer the following with reference to the context:**

**A.** "It did. They started with breaking a cup. That was the first thing they did. They did that just to show you what they could do, and to get you interested. Then Harris packed strawberry jam on top of a tomato and squashed it, and they had to pick out the tomato with a teaspoon."

- (i) What was the first thing that the author's friend broke?
- (ii) Who packed the strawberry jam?
- (iii) How did they pick out the tomatoes?

**B.** "It takes much time to kill a tree,  
Not a simple jab of the knife  
Will do it. It has grown  
Slowly consuming the earth,  
Rising out of it, feeding  
Upon its crust, absorbing  
Years of sunlight, air and water,  
And out of its leprous hide  
Sprouting leaves."

- (i) What does a tree absorb?
- (ii) What does it consume?
- (iii) Does it take much time to kill a tree?

- 3. Very short answer type questions:**

- (i) Why did Prashant go to Ersama?
- (ii) Who was Bruno?
- (iii) Why was Maria sent to US?
- (iv) Where did George find the butter?
- (v) In the poem 'The Snake Trying', was the snake harmful?

**SUBJECT: HINDI**

प्र.1— 'माटी वाली' नामक पाठ में निहित संदेश व्यक्त कीजिए।

प्र.2— 'रीढ़ की हड्डी' पाठ अपने पाठकों को क्या संदेश देना चाहता है ?

प्र.3— बच्चों का काम पर जाना धरती के एक हादसे के समान क्यों है ?

प्र.4— 'कैदी और कोकिला' कविता के आधार पर माखनलाल चतुर्वेदी की काव्य-शैली संक्षेप में बताइए ?

प्र.5— 'मेरे संग की औरतें' पाठ के आधार पर बताइए कि परदादी ने पतोहू के लिए पहले बच्चे के रूप में लड़की पैदा होने की मन्नत क्यों मांगी?

**SUBJECT: MATHEMATICS**

1. The diameter of the moon is approximately one fourth of the diameter of the earth. What fraction of the volume of the earth is the volume of the moon?
2. A dome of a building is in the form of a hemisphere. From inside, it was white washed at the cost of Rs 498.96. If the cost of white washing is Rs.2.00 per square metre, find the
  - (i) Inside surface area of the dome,
  - (ii) Volume of the air inside the dome.
3. Prove that the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord.
4. Show that the bisectors of angles of a parallelogram form a rectangle.
5. Prove that the diagonals of a rhombus are perpendicular to each other.
6. If two circles intersect at two points, prove that their centres lie on the perpendicular bisector of the common chord.

**MATHS ACTIVITY****ACTIVITY 1 ARCS AND ANGLES****OBJECTIVE**

- (A) To verify that the angle subtended by an arc at the centre of a circle is double the angle subtended by it at any point on the remaining segment of the circle experimentally.
- (B) To verify that the angles subtended by an arc of a circle in the same segment of the circle are equal.

**ACTIVITY 2 MID POINT THEOREM****OBJECTIVE**

To show that the line segment joining the mid points any two sides of triangle is parallel to the third side and equal to half of it.

**SUBJECT: SCIENCE****Physics**

1. Define acceleration due to gravity. Derive an expression for acceleration due to gravity in the terms of mass of the Earth (M) and universal gravitational constant (G).
2. What happens to the force between two objects, if
  - (i) the mass of one object is doubled?
  - (ii) the distance between the objects is doubled.

- (iii) the masses of both objects are doubled?
3. A ball is thrown vertically upwards with a velocity of 49 m/s. Calculate
- the maximum height to which it rises.
  - the total time it takes to return to the surface of the Earth.

### **Chemistry**

- What weight of calcium contains the same number of atoms as are present in 3.2 g of Sulphur?
- Neon has atomic weight 20 u. An atom of Neon contains 10 protons and 10 neutrons. How can you account for the value of atomic weight of Neon?
- Explain Rutherford's model of the atom with diagram.
- Define isotopes and isobars with examples.
- Make a schematic atomic structure of Magnesium and Phosphorus and give their valencies.

### **Biology**

- Why do some children fall ill more frequently than others living in the same locality? List any five reasons.**
- What precautions will you take to justify “prevention is better than cure”?**
- Explain giving reasons**
  - Our surrounding area should be free of stagnant water.**
  - Social harmony and good economic conditions are necessary for good health.**

### **SUBJECT: SOCIAL SCIENCE**

#### **History**

- The peace Treaty at Versailles with the allies was a harsh and humiliating peace. Justify the statement.
- What promises were made by Hitler to the people of Germany?
- What does the concept of lebensraum mean?
- Which country had waged a genocidal war?

#### **Civics**

- What makes an election democratic?
- What choices are made by voters in an election?
- What does level playing field mean?
- What does code of conduct mean?

#### **Geography**

- Name the states where the kalbaisakhi and mango showers occur?
- What is the importance of wildlife?
- Describe the main features of the cold weather season or winter.
- What are the characteristics of the tropical evergreen forest?

#### **Economics**

- When does population become human capital?
- How does the society benefit from investment in humans?

3. What are the different ways of increasing production on the same piece of land? Use examples to explain.
4. Differentiate between seasonal and disguised unemployment.
5. Explain about economic activities through the story of Palampur.

**SUBJECT: SANSKRIT**

1) अनुवादं कुरुत—

- क) राम और श्याम घर जा रहे हैं।
- ख) पिता समाचार पत्र पढ़ रहे हैं।
- ग) सदा सत्य बोलो।
- घ) वे सब सिनेमा गए।
- ङ) तुम क्या कर रहे हो?
- च) भारत हमारा देश है।
- छ) वह पुस्तक पढ़ेगी।

2) 'पर्यावरण' इति विषये चित्रनिर्माणं कृत्वा एकं अनुच्छेदं लिखत। (A4 size paper)

