MATHEMATICS MOCK TEST

Class: VI | Set: 10

Time: 2 Hours | Written Marks: 35 | Viva: 5 | Total: 40 Marks

NAME: _____   ROLL NO: _____

SECTION A   (1 Mark Each)

1. Write the decimal "Ninety point three two five" in figures.

2. How many palindromic times are there between 2 o'clock and 3 o'clock?

3. Write 9.008 in expanded form.

4. What is the name of the chord that passes through the center of a circle?

5. If one unit length on a bar graph represents 10 units, how many units represent 70 students?

SECTION B   (2 Marks Each)

6. Convert the following into like decimals: $2.6, 0.08, 4.3, 6, 9.1$.

7. What is the sum of the smallest and the greatest numbers formed by the digits $7, 2, 0,$ and 5?

8. Write the smallest 7-digit number having four different digits.

9. Draw a line segment $PQ = 8.2$ cm and mark its midpoint M using a ruler.

10. Express 4560 m in kilometres using decimals.

SECTION C   (3 Marks Each)

11. A tin of oil weighs 16.8 kg. What is the weight of 45 such tins?

12. Abhay bought 576 balloons for decoration. Out of these, 239 leaked and could not be used. Estimate how many balloons Abhay used for decoration (round to the nearest hundred).

13. Draw a circle of radius 4 cm. Draw any two of its chords and construct the perpendicular bisectors of these chords.

14. The following data shows the favorite colors of 40 students:
    Red: 15, Blue: 10, Green: 8, Yellow: 7.
    Organize this data in a frequency table using tally marks and draw a simple bar graph.

SECTION D

Case Study 1: The Theatre Collection Estimation
In a theatre, 129 people came to watch a show on the first day. If almost the same number of people came every day for a week:

  (i) Estimate the total number of people who watched the show in one week (7 days). (2 Marks)

  (ii) If each ticket costs ₹201, estimate the total collection for the entire week. (2 Marks)

Case Study 2: Journey and Measurements
The distance between Richa's house and her school hostel is 61 km. She covers 54 km 860 m by taxi and 5 km 65 m by tonga.

  (i) Express the distance covered by taxi and the distance covered by tonga in kilometres using decimals. (2 Marks)

  (ii) Find the remaining distance she covered by rickshaw in kilometres. (2 Marks)

VIVA VOCE

- **Number Play:** What is the "Kaprekar's constant" that we arrive at after iterations?

- **Decimals:** Which is greater: 5.608 or 5.68?

- **Geometry:** How many lines can be drawn passing through a single given point?

- **Data Handling:** What does a "Star" symbol represent if 5 stars represent 500 cars?

- **Logic:** Write any one palindromic date that can occur in a calendar.