MATHEMATICS MOCK TEST

Class: VI | Set: 16

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

NAME: _____ **ROLL NO:** _____

SECTION A

(1 Mark Each)

1. Write the decimal "Eleven point zero zero four" in figures.
2. How many times does the digit 9 occur if we write all the numbers from 1 to 100?
3. Express 6 mm in cm, using decimals.
4. What is the measure of the angle formed by the hands of a clock at 3 o'clock?
5. If 1 star symbol represents 50 cars in a pictograph, how many cars are represented by 4 stars?

SECTION B

(2 Marks Each)

6. Find the product: 73.92×10.
7. Write the smallest 7-digit number having four different digits.
8. Draw a line segment $PQ = 6.2$ cm. Draw the perpendicular bisector of PQ using a ruler and compasses.
9. Write the decimal 87.56 in expanded form.
10. A die was thrown 10 times and the following scores were recorded: $1, 2, 3, 1, 4, 5, 2, 2, 3, 6$. Prepare a frequency table using tally marks.

SECTION C

(3 Marks Each)

11. A man purchases an almirah for ₹$27,085$, gives ₹292.70 as cartage and spends ₹164.80 on its fitments. How much does the almirah cost him in total?
12. The clock just displayed the palindromic time $10:01$. After how much time will this clock display the next palindromic time?
13. Construct a rectangle the lengths of whose sides are 4 cm and 7 cm using a ruler and compasses.
14. The table below shows the number of students who like different subjects. Draw a simple bar graph on your answer sheet.

Subject	Maths	English	Science	Social
No. of Students	15	10	12	8

SECTION D

(4 Marks Each - Case Study)

Case Study 1: Estimation in the Garden
Sanjay's garden has many sunflowers. He counted the petals of one sunflower and found them to be 79.

(i) Estimate the total number of petals in 122 such sunflowers by rounding to the nearest ten. (2 Marks)

(ii) If there are 55 seeds in 8 fruits of a plant, estimate the number of seeds in each fruit. (2 Marks)

Case Study 2: Geometric Frame Design
A student is designing a rectangular picture frame for an art competition.

(i) Construct a rectangle $ABCD$ where one side $AB = 5$ cm and the diagonal $BD = 6.5$ cm. (2 Marks)

(ii) What is the measure of each interior angle of the constructed rectangle? (2 Marks)

VIVA VOCE

(5 Marks)

- **Number Logic:** What is Kaprekar's constant and how do we reach it?
- **Decimals:** How do you write $7/1000$ as a decimal?
- **Constructions:** What is the difference between a ruler and a scale?
- **Data Handling:** What is the purpose of using a "Scale" in a bar graph?
- **Estimation:** How do you round off 79 to the nearest ten?