MATHEMATICS MOCK TEST

Class: VI | Set: 20

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

NAME: _____ **ROLL NO:** _____

SECTION A

(1 Mark Each)

1. Write the decimal "Two hundred four point five seven" in figures.
2. How many times does the digit 9 occur if we write all the numbers from 1 to 100?
3. Express 28 mm in cm, using decimals.
4. What is the measure of a straight angle?
5. If a symbol represents 8 units in a pictograph, how many symbols represent 48 units?

SECTION B

(2 Marks Each)

6. Write 25.638 in expanded form.
7. Arrange the following decimals in ascending order: $0.33, 3.3, 3.303, 3.033, 3.003$.
8. Construct $\angle AOB = 85°$ with the help of a protractor. Draw a ray OX bisecting $\angle AOB$.
9. Find the product: 104.06×75.
10. Prepare a frequency table using tally marks for the following scores of a student: $8, 6, 8, 9, 7, 8, 5, 8, 6,$

SECTION C

(3 Marks Each)

11. Start with the number 3814. Show the iterations of subtracting the smallest formed number from the largest formed number until you arrive at the Kaprekar's constant (6174).
12. Ramesh covers 36 km 235 m by taxi, 4 km 85 m by rickshaw and 1 km 80 m on foot. What is the total distance covered by him in kilometres?
13. Construct a rectangle one of whose sides is 5 cm and the diagonal is of length 6.5 cm using a ruler and compasses.
14. The following table shows the number of students who joined different clubs:

Club	Music	Dance	Art	Yoga
No. of Students	20	15	10	25

Represent this data using a Bar Graph on your answer sheet.

SECTION D

(4 Marks Each - Case Study)

Case Study 1: Estimation in the Garden
Sanjay is studying the flowers and fruits in his garden. He uses rounding to estimate large numbers.

(i) Sanjay counted the petals of a sunflower and found them to be 79. Estimate the total number of petals in 122 such sunflowers by rounding to the nearest hundred. (2 Marks)

(ii) There are 55 seeds in 8 fruits of a plant. If we assume the number of seeds is almost equal in each fruit, estimate the number of seeds in each fruit. (2 Marks)

Case Study 2: The School Bag Weight Challenge
Neelam and Garima are comparing the weights of their school bags to ensure they aren't carrying too much weight.

(i) The school bags of Neelam and Garima weigh 7 kg 80 g and 5 kg 365 g respectively. Whose bag is heavier and by how much? (2 Marks)

(ii) By how much should a bag weighing 8.35 kg be decreased to reach the ideal weight of 2.463 kg? (2 Marks)

VIVA VOCE

(5 Marks)

- **Numbers:** After how many years does a calendar repeat itself?
- **Decimals:** How do you write $167/100$ as a decimal?
- **Construction:** What is the measure of the angle formed by two perpendicular lines?
- **Data Handling:** What is a "Frequency" in a data distribution?
- **Estimation:** If you round 79 to the nearest ten, what is the value?