

**Class 7 Mathematics - Question Paper Topic: A Peek Beyond Point (Decimal)**

**Section A: MCQ (1 mark each)**

1. On a number line, the segment between 3 and 4 is divided into 10 equal parts. Which decimal represents the 6<sup>th</sup> division after 3?

- A) 3.66      B) 3.006      C)  $306/100$       D)  $36/10$

2. What is the decimal form of 4 ones, 7 tenths and 2 hundredths?

- A) 4.72      B) 47.2      C) 4.072      D) 4.2

3. 1 mm is how much of a metre?

- A)  $1/10$       B)  $1/100$       C)  $1/1000$       D) 0.01

4. Which of the following is between 3.4 and 3.5?

- A) 3.39      B) 3.50      C) 3.45      D) 3.51

5. Which number is closest to 2.99?

- A) 3.1      B) 2.95      C) 2.9      D) 3.0

6. Between 7.1 and 7.2 on the number line, point A is marked at 7 hundredths after 7.1. The decimal number at point A is \_\_\_\_\_

- A) 7.107      B) 7.117      C) 7.17      D) 7.2

7. Assertion and Reasoning Based Question

Assertion (A) :  $7.10 = 7.01$

Reason (R) : Zeros at the end of a decimal do not change its value;

A) Both A and R are true and R is the correct explanation of A

B) Both A and R are true and R is not the correct explanation of A

C) A is true but R is false.

D) A is false, but R is true.

**Section B: Short Answer Questions (2 marks each)**

1. Write 4 tenths and 7 hundredths as a decimal.

2. Convert 3.05 into a fraction.

3. Write the place value of 6 in 23.684.

4. Round off 5.678 to the nearest tenth.

5. Add:  $12.34 + 4.56$

6. Subtract:  $8.945 - 2.136$

7. Multiply:  $3.6 \times 1.2$

**Section C: Long Answer Questions (3 marks each)**

8. A litre of milk costs ₹23.75. Find the cost of 5 litres of milk.

9. A ribbon of length 5.25 m is cut into 3 equal parts. What is the length of each part?

10. Write the decimal number 7.325 in expanded form and in words.

### Section D: HOTS (Higher Order Thinking Skills) (4 marks each)

11. The length of a wall is 12.5 m and its height is 2.4 m. Find the area of the wall in square meters. Also convert it into square centimeters.
12. A tank contains 125.75 litres of water. If 35.5 litres is used, how much water is left? Also express the answer in millilitres.
13. The cost of 1 kg of apples is ₹148.60. What is the cost of 2.5 kg of apples?

### Section E: Case Based Questions

#### School Library Book Weights

The school librarian is packing books into a carton for a book exhibition. The weights of four books are **1.25 kg, 0.85 kg, 1.40 kg, and 0.95 kg**. The carton can safely carry **5 kg** of weight.

Answer the following questions:

- (i) What is the total weight of all the books?
- (ii) Can the librarian add another book weighing **0.75 kg**? Give a reason.
- (iii) Convert the total weight into grams.
- (iv) How much additional weight can the carton still carry?

#### Water Consumption at Home

A family uses water from a storage tank during a day. In the morning, they use **1.75 L** of water, in the afternoon **2.25 L**, and in the evening **1.65 L**. The tank initially contains **6 L** of water. Answer the following:

- (a) How much water is used in total?
- (b) How much water remains in the tank?
- (c) Convert the total water used into millilitres.
- (d) If the family uses an additional **0.80 L** at night, how much water will remain?

#### Ribbon Decoration for a Festival

Riya is decorating her classroom with ribbons. She has ribbon pieces measuring **1.85 m, 2.40 m, and 1.65 m**. She needs **6.5 m** of ribbon for the decorations. Answer the following:

- (a) What is the total length of ribbon available?
- (b) Does she have enough ribbon? If not, how much more does she need?
- (c) Convert each ribbon length into centimetres and find the total.
- (d) If she cuts **0.20 m** from each piece, what length of ribbon remains?

#### Petrol Used During a Trip

A family goes on a road trip. Their car uses **8.75 L** of petrol on the first day, **6.50 L** on the second day, and **7.25 L** on the third day. The fuel tank initially contains **25 L** of petrol.

Answer the following:

- (i) How much petrol is used in total?
- (ii) How much petrol remains in the tank?
- (iii) Convert the total petrol used into millilitres.
- (iv) If they refill the tank with **5.50 L** of petrol, how much petrol will the tank contain?

#### Fruit Juice Stall

A juice seller prepares three containers of juice containing **2.35 L, 1.75 L, and 3.40 L** of juice. During the day, he sells **5.50 L** of juice.

Answer the following:

- (a) What is the total quantity of juice prepared?
- (b) How much juice remains after selling?
- (c) Convert the total quantity of juice into millilitres.
- (d) If he prepares an additional **1.25 L** of juice, what will be the new total quantity?