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CHAPTER-5 | Measurement of Length and Motion

QUIZ PART-01

1. Why is measuring with body parts considered unreliable?
   A. It takes too much time
   B. It requires special tools
   C. Body parts vary in size from person to person
   D. It is only used for long distances (C)

Explanation : Since body sizes differ, the same object gives different results, so measurements are inconsistent.

2. Which option best illustrates "Measurement = Number + Unit"?
   A. A long rope
   B. 13 handspans
   C. Handspan
   D. A large box (B)

Explanation : A valid measurement states a quantity with its unit, such as "13 handspans."

3. Which is the SI unit of length?
   A. Foot
   B. Metre
   C. Inch
   D. Angula (B)

Explanation : The International System of Units specifies the metre (m) as the unit of length.

4. How many centimetres are there in one metre?
   A. 10
   B. 100
   C. 1000
   D. 0.1 (B)

Explanation : 1 metre equals 100 centimetres.

5. What is the value of 1 inch in centimetres?
   A. 2.40 cm
   B. 2.54 cm
   C. 2.45 cm
   D. 2.05 cm (B)

Explanation : The inch-to-centimetre conversion is fixed at 1 inch = 2.54 cm.

6. Which units are commonly used for smaller measurements?
   A. Kilometre and metre
   B. Centimetre and millimeter
   C. Foot and yard
   D. Yojana and dhanusa (B)

Explanation : Centimetre (cm) and millimetre (mm) are used for short lengths.

7. Which unit is most suitable for measuring the distance between two towns?
   A. Millimetre
   B. Centimetre
   C. Metre
   D. Kilometre (D)

Explanation : Kilometre (km) is used for long distances and equals 1000 metres.

8. Which set lists ancient Indian units of measurement?
   A. Inch, foot, yard
   B. Metre, centimetre, millimeter
   C. Angula, dhanusa, yojana
   D. Pound, ounce, stone (C)

Explanation : These are traditional Indian units mentioned in historical contexts.

9. Which civilisation used tools with ruled markings similar to early rulers?
   A. Mesopotamian B. Harappan
   C. Roman D. Mayan (B)

Explanation : The Harappan civilisation had marked tools resembling early measuring scales.

10. Why was a common measurement system adopted worldwide?
   A. To replace ancient knowledge
   B. To make tools cheaper
   C. To avoid confusion from different regional systems
   D. To encourage use of inches and feet (C)

Explanation : Diverse local systems created confusion; adopting standard units ensures consistency.

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