CLASS TEST
MEASUREMENT OF LENGTH

Date: 13.8.26 **Full Marks: 10**

- **Multiple choice questions: (4×1=4)**

1. student measures a table as 125 cm. Another student records the same measurement as 1 m 25 cm. A third student records it as 12.5 dm. Which statement is correct?

A. Only the first measurement is correct.
B. Only the first and second are correct.
C. All three represent the same length.
D. The first and third represent different lengths.

2. A student wants to measure the length of a pencil using a ruler. The pencil starts at the 2.4 cm mark and ends at the 15.7 cm mark. What is the actual length of the pencil?

A. 15.7 cm
B. 14.3 cm
C. 18.1 cm
D. 13.3 cm

3. Four students measure the same desk:
i: 12 hand spans
ii: 10 hand spans
iii: 120 cm
iv: 1.2 m
Which conclusion is most appropriate?

A. i and ii must be wrong because hand span cannot measure length.
B. iii and iv cannot be compared because different units are used.
C. iii and iv represent the same measurement and are easier to compare universally.
D. i and ii are more accurate because hand span is convenient.

4. Four students measure the same table using different methods:
P: Measures from 0 cm to 120 cm.
Q: Measures from 5 cm to 125 cm.
R: Measures from 10 cm to 130 cm.

S: Measures from 2 cm to 121 cm.

Which student obtained a measurement that is different from the others?

A. Q
B. S
C. R
D. P

- **Subjective questions: (6 marks)**

5. Which SI unit of length is most suitable for measuring: (0.5+0.5)
   A. The distance between two cities?
   B. The length of the blackboard of your classroom?

6. Sagar measures a pencil using a ruler. He places the pencil slightly away from the ruler's scale at one end and reads the markings while looking at them from an angle. He obtains 14.2 cm. His teacher asks him to repeat the measurement by placing the pencil exactly along the scale and keeping his eye directly above the marking. (1+2)
   A. Is Sagar's first measurement be unreliable?
   B. Mention two precautions he should take to obtain a more accurate measurement.

7. Two students measure the same curved line. One uses a flexible thread, while the other uses a rigid ruler. Which method is likely to give a more accurate measurement? Give a reason. (1+1)