

Marks: 25

Time: 20 mins

Q1. Fill in the blanks:

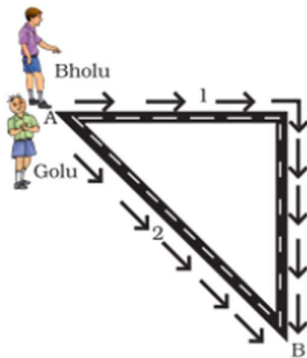
- (i) ..... motion is also a periodic motion.
- (ii) Except string, we can also measure the length of a curved line using .....
- (iii) Invention of..... made great change in modes of transport.
- (iv) Moving ceiling fan is an example of ..... motion.
- (v) Motion is the change in ..... of an object.
- (vi) Striker in the game of carroms moves in a ..... .
- (vii) A ball rolling on ground executes a rectilinear motion as well as ..... motion.
- (viii) Each metre is divided into 100 equal divisions, called .....
- (ix) In 1790, the French created a standard unit of measurement called the ..... system.
- (x) Measurement means the comparison of an ..... quantity with some ..... quantity of the same kind. 10

Q2. Choose the correct option:

1. What is the SI unit of length?  
(a) Metre (b) Centimetre (c) Kilometre (d) All of these
2. What do we use to measure curved lengths?  
(a) Thread (b) Wood (c) Sand (d) Paper
3. The act of determining, size, capacity or quantity of an object is called  
(a) units (b) measurement (c) pace (d) motion
4. Which of the following types of motion is not exhibited by the earth moving around the sun?  
(a) Circular (b) Rotational (c) Rectilinear (d) Periodic
5. 10 millimetres is equal to-  
(a) 1 metre (b) 1 centimetre (c) 1 kilometre (d) 1 mile 5

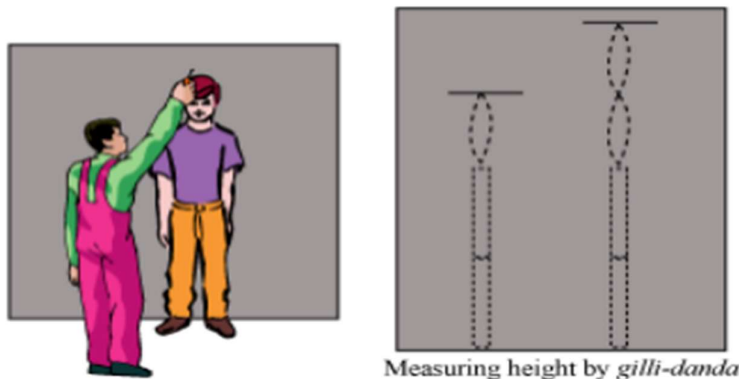
Q3. Source based question: Bholu and Golu are playing in a ground. They start running from the same point A in the ground and reach point B at the same time

by following the paths marked 1 and 2 respectively as shown in Fig.



- (i) Which of the following is/are true for the given situation-  
As compared to Golu, Bholu covers a
- longer distance but with a lower speed.
  - longer distance with a higher speed.
  - shorter distance with a lower speed.
  - shorter distance with a higher speed
- (ii) What type of motion is Bholu performing? 2

Q4. Case based question: Raju and Ravi fight frequently over who is taller. They decide to measure their heights by standing next to a wall and marking their heights. They measure the height of each mark by using a gilli-danda to measure the distance between the foot of the wall and their respective marks. It is found that Raju's height is equal to two dandas and one gilli, whereas that of Ravi is equal to two dandas and two gillis. Hence, Ravi is taller than Raju.



(i) Does this type of measurement accurately determine their heights?

(ii) They substituted a stump and a bail for the gilli-danda during their subsequent attempt to measure their heights. Will they get the same result in both cases? If not, then can you explain the reason for this? 3

Q5. Match the following –

Match the items given in column I suitably with those given in column II.

Column A	Column B
1. S.I. unit of measuring length	(a) Linear motion
2. Measuring length of straight objects	(b) Periodic motion
3. Bullet fired from a gun	(c) Metre
4. Motion of the tip of the hand of a clock	(d) Circular motion
5. The revolution of earth around the sun	(e) Metre scale

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