Chapter 10

MULTIPLE CHOICE QUESTIONS

1. (d) 2. (d) 3. (c) 4. (b)
5. (c) 6. (b) 7. (c) 8. (b)
9. (d)

VERY SHORT ANSWER QUESTIONS

10. (i) The motion of a swing is an example of periodic motion.

or

The motion of a swing is not an example of rectilinear motion.

(ii) 1m = 100 cm

11. (i) circular

(ii) periodic

(iii) straight; along

(iv) metre

12. (i) An object moving on a straight road, falling stone, etc.

(ii) A mark on blades of a rotating fan, tips of the hands of a clock, etc.

(iii) Motion of a child on a swing, motion of pendulum, strings of a guitar, etc.

(iv) Blades of a rotating fan, hands of a clock, etc.

SHORT ANSWER QUESTIONS

13. The length can be measured using a thread which can be further measured with the help of a scale.

14.

Y	O	U	N	G	C	C	N	T	E	R
L	E	V	E	L	P	I	E	E	A	R
A	L	L	O	T	O	P	P	E	A	I
N	O	T	E	P	A	D	N	E	C	K
O	W	O	N	E	W	I	Y	Z	S	E
I	E	V	O	R	L	O	A	D	W	P
T	R	G	N	I	C	E	D	R	I	L
A	Z	H	T	O	N	G	U	E	N	A
T	X	C	R	D	E	P	T	H	G	R
O	E	Y	C	I	R	C	U	L	A	R
R	T	L	C	C	O	P	P	E	R	T

15. Salim would get the most accurate length. The reason is that in this case the length of the table can be measured in one go because the measuring tape is longer than the table. In the other cases the chance of making an error is higher due to multiple measurement. In case of Sam, he can measure the lengths which are exact multiples of half a metre.

16. a– (ii); b– (i); c– (iii).

LONG ANSWER QUESTIONS

17. When we see the trees from a moving train, their position is changing with respect to us. Hence they appear to be moving. On the other hand the position of co-passengers is not changing with respect to us, hence they appear to be stationary.

18. **Hint:** The wheel of a moving bicycle depicts circular as well as rectilinear motion whereas a blade of a moving electric fan shows only circular motion.

19. **Hint:** Some of the reasons for difference in their measurement could be:

- Different measuring devices were used.
- The smallest length that could be measured by different devices may be different.

- Measurement may not be along the shortest length in all three cases.
- The end of the corridor may not be easily accessible.
- The measuring devices may be faulty (not standardised)
- Any other correct reason.

(Any three can be considered)

20. **Hint:**

(1) Handle bar or seat

(2) Pedal

(3) Wheel