

5.1 A ball is travelling with uniform translatory motion. This means that

- (a) it is at rest.
- (b) the path can be a straight line or circular and the ball travels with uniform speed.
- (c) all parts of the ball have the same velocity (magnitude and direction) and the velocity is constant.
- (d) the centre of the ball moves with constant velocity and the ball spins about its centre uniformly.

Solution

① During uniform translatory motion, the linear dist. covered by each particle should be same. Also body should not change its orientation during the motion. So, ~~(B)~~ (C) all parts of the ball have same velocity (mag. & direction) and vel. is const. is correct.