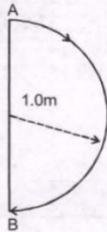


QUES 3

In 1.0 s, a particle goes from point *A* to point *B*, moving in a semicircle of radius 1.0 m (see Figure). The magnitude of the average velocity [1999S - 2 Marks]

- (a) 3.14 m/s
- (b) 2.0 m/s
- (c) 1.0 m/s
- (d) Zero



(b) | Average velocity | =
$$\frac{|\text{displacement}|}{\text{time}}$$
$$= \frac{2r}{t} = 2 \times \frac{1}{1} = 2 \text{ m/s. } (\because r = 1 \text{ m}; t = 1 \text{ s})$$