

PYQSide

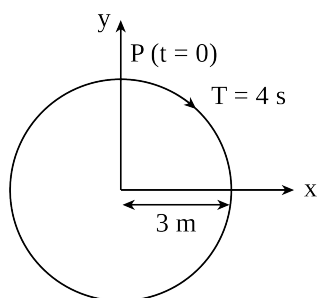
NEET OSCILLATIONS — SHM AND UNIFORM CIRCULAR MOTION — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

- Q.1** The radius of circle, the period of revolution, initial position and sense of revolution are indicated in the figure.



y- projection of the radius vector of rotating particle P is : [NEET (UG) 2019]

- (1) $y(t) = 4\sin\left(\frac{\pi t}{2}\right)$, where y in m
- (2) $y(t) = 3\cos\left(\frac{3\pi t}{2}\right)$, where y in m
- (3) $y(t) = 3\cos\left(\frac{\pi t}{2}\right)$, where y in m
- (4) $y(t) = -3\cos 2\pi t$, where y in m

Scan or tap for the full solution



- Q.2** The circular motion of a particle with constant speed is [AIPMT 2005]

- (1) periodic but not simple harmonic
- (2) simple harmonic but not periodic
- (3) periodic and simple harmonic
- (4) neither periodic nor simple harmonic

Scan or tap for the full solution



- Q.3** The equations of two waves acting in perpendicular directions are given as

$x = a\cos(\omega t + \delta)$ and $y = a\cos(\omega t + \alpha)$, where $\delta = \alpha + \frac{\pi}{2}$, the resultant wave represents

[AIPMT 2000]

- (1) a parabola
- (2) a circle
- (3) an ellipse
- (4) a straight line

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3										
Ans.	3	1	2										