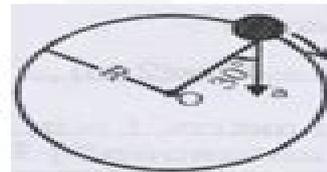


15. A car is negotiating a curved road of radius R . The road is banked at an angle θ , the coefficient of friction between the tyres of the car and the road is μ_s . The maximum safe velocity on this road is :-
[NEET-I 2016]

(1) $\sqrt{gR^2 \frac{\mu_s + \tan \theta}{1 - \mu_s \tan \theta}}$ (2) $\sqrt{gR \frac{\mu_s + \tan \theta}{1 - \mu_s \tan \theta}}$
 (3) $\sqrt{\frac{g}{R} \frac{\mu_s + \tan \theta}{1 - \mu_s \tan \theta}}$ (4) $\sqrt{\frac{g}{R^2} \frac{\mu_s + \tan \theta}{1 - \mu_s \tan \theta}}$

16. In the given figure, $a = 15\text{ms}^{-2}$ represents the total acceleration of a particle moving in the clockwise direction in a circle of radius $R = 2.5\text{m}$ at a given instant of time. The speed of the particle is :-
[NEET-II 2016]



- (1) 5.7m/s (2) 6.2m/s (3) 4.5m/s (4) 5.0m/s

17. A particle moves so that its position vector is given by $\vec{r} = \cos \omega t \hat{x} + \sin \omega t \hat{y}$.
Where ω is a constant.
Which of the following is true?
[NEET-II 2016]

- (1) Velocity and acceleration both are perpendicular \vec{r} .
 (2) Velocity and acceleration both are parallel to
 (3) Velocity is perpendicular to \vec{r} and acceleration is directed towards the origin
 (4) Velocity is perpendicular to \vec{r} and acceleration is directed away from the origin

18. A particle starts with angular acceleration 2 rad/sec^2 . It moves 100 rad in a random interval of 5sec. Find out the time at which random interval starts.
[AIIMS 2016]
- (1) 7.5 sec (2) 4.5 sec (3) 5 sec (4) 6 sec

19. One end of string of length l is connected to particle of mass 'm' and the other end is connector to a small peg on a smooth horizontal table. If the particle moves in circle with speed 'v' the net force on the particle (directed towards centre) will be (T represents the tension in the string):-

(1) $T + \frac{mv^2}{l}$ (2) $T - \frac{mv^2}{l}$ [NEET(UG) 2017]
 (3) Zero (4) T

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