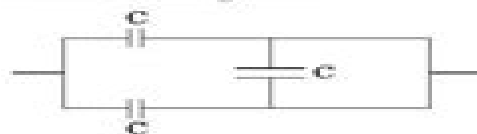


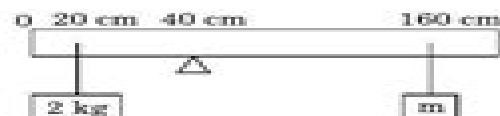
31. The equivalent capacitance of the combination shown in the figure is :



- (1) $2C$
 (2) $C/2$
 (3) $3C/2$
 (4) $3C$
32. A spring is stretched by 5 cm by a force 10 N. The time period of the oscillations when a mass of 2 kg is suspended by it is :
 (1) 6.28 s
 (2) 3.14 s
 (3) 0.628 s
 (4) 0.0628 s
33. A small block slides down on a smooth inclined plane, starting from rest at time $t=0$. Let S_n be the distance travelled by the block in the interval $t=n-1$ to $t=n$. Then, the ratio $\frac{S_n}{S_{n+1}}$ is :
 (1) $\frac{2n-1}{2n+1}$
 (2) $\frac{2n+1}{2n-1}$
 (3) $\frac{2n}{2n-1}$
 (4) $\frac{2n-1}{2n}$
34. The escape velocity from the Earth's surface is v . The escape velocity from the surface of another planet having a radius, four times that of Earth and same mass density is :
 (1) $2v$
 (2) $3v$
 (3) $4v$
 (4) v
35. If E and G respectively denote energy and gravitational constant, then $\frac{E}{G}$ has the dimensions of :
 (1) $[M] [L^{-1}] [T^{-1}]$
 (2) $[M] [L^0] [T^0]$
 (3) $[M^2] [L^{-2}] [T^{-1}]$
 (4) $[M^2] [L^{-1}] [T^0]$

Section - B (Physics)

36. A uniform rod of length 200 cm and mass 500 g is balanced on a wedge placed at 40 cm mark. A mass of 2 kg is suspended from the rod at 20 cm and another unknown mass ' m ' is suspended from the rod at 160 cm mark as shown in the figure. Find the value of ' m ' such that the rod is in equilibrium. ($g = 10 \text{ m/s}^2$)



- (1) $\frac{1}{3} \text{ kg}$
 (2) $\frac{1}{6} \text{ kg}$
 (3) $\frac{1}{12} \text{ kg}$
 (4) $\frac{1}{2} \text{ kg}$
37. A particle moving in a circle of radius R with a uniform speed takes a time T to complete one revolution. If this particle were projected with the same speed at an angle ' θ ' to the horizontal, the maximum height attained by it equals $4R$. The angle of projection, θ , is then given by :

- (1) $\theta = \cos^{-1} \left(\frac{gT^2 R}{\pi^2} \right)^{1/2}$
 (2) $\theta = \sin^{-1} \left(\frac{gT^2 R}{\pi^2} \right)^{1/2}$
 (3) $\theta = \sin^{-1} \left(\frac{2gT^2}{\pi^2 R} \right)^{1/2}$
 (4) $\theta = \cos^{-1} \left(\frac{gT^2}{\pi^2 R} \right)^{1/2}$

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