

Q1

A tangential force of 20 N is applied on a cylinder of mass 4 kg and moment of inertia 0.02 kg m^2 about its own axis. If the cylinder rolls without slipping, then linear acceleration of its centre of mass will be

- (a) 6.7 m/s^2
 (b) 10 m/s^2
 (c) 3.3 m/s^2
 (d) None of these



Q2

Two soap bubbles A and B are kept in a dashed chamber where the air is maintained at pressure 8 N/m^2 . The radii of bubbles A and B are 2 cm and 4 cm, respectively. Surface tension of the soap-water used to make bubbles is 0.04 N/m . Find the ratio n_B/n_A , where n_A and n_B are the number of moles of air in bubbles A and B, respectively. [Neglect the effect of gravity]

- (a) 4 (b) 6 (c) 5 (d) 9

Q3

A bullet of mass 20 g and moving with 600 m/s collides with a block of mass 4 kg hanging with the string. What is velocity of bullet when it comes out of block, if block rises to height 0.2 m after collision?

- (a) 200 m/s (b) 150 m/s (c) 400 m/s (d) 300 m/s

Q4

In the following circuit, the resultant capacitance between A and B is $1 \mu\text{F}$. Then value of C is



- (a) $\frac{32}{11} \mu\text{F}$ (b) $\frac{11}{32} \mu\text{F}$ (c) $\frac{23}{32} \mu\text{F}$ (d) $\frac{32}{23} \mu\text{F}$

Q5

The current through a bulb is increased by 1%. Assuming that the resistance of the filament remains unchanged the power of the bulb will

- (a) increase by 1% (b) decrease by 1%
 (c) increase by 2% (d) decrease by 2%

Q6

Two straight long conductors AOB and COD are perpendicular to each other and carry currents i_1 and i_2 . The magnitude of the magnetic induction at a point P at a distance a from the point O in a direction perpendicular to the plane ABCD is

- (a) $\frac{\mu_0}{2\pi a} (i_1 + i_2)$ (b) $\frac{\mu_0}{2\pi a} (i_1 - i_2)$
 (c) $\frac{\mu_0}{2\pi a} (i_1^2 + i_2^2)^{1/2}$ (d) $\frac{\mu_0}{2\pi a} \frac{i_1 i_2}{(i_1 + i_2)}$

Q7

Dimensions of magnetic flux are

- (a) $ML^2T^{-2}A^{-1}$ (b) $ML^0T^{-2}A^{-2}$
 (c) $M^0L^{-2}T^{-2}A^{-3}$ (d) $ML^2T^{-2}A^3$

Q8

Two block of mass 8 kg and 4 kg are connected by a string as shown in the figure below. Calculate their acceleration, if they are initially at rest on the floor, when a force of 100 N is applied on the massless pulley in upward direction ($g = 10 \text{ ms}^{-2}$)

- (a) $0 \text{ m/s}^2, 0 \text{ m/s}^2$
 (b) $0 \text{ m/s}^2, 2.5 \text{ m/s}^2$
 (c) $1.25 \text{ m/s}^2, 2.5 \text{ m/s}^2$
 (d) $2.5 \text{ m/s}^2, 0 \text{ m/s}^2$



Q9

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**Vaibhavi Bhandary, Rahul Rao,
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