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 closed chamber where the air is maintained at pressure 8 N/m^2. The radii of bubbles A and B are 2cm and 4cm, respectively. Surface tension of the soap–water used to make bubbles is 0.04 N/m. Find the ratio η_B / η_A, where η_A and η_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 20g 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 1μF. Then value of C is

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

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

Q8

Two block of mass 8kg and 4kg 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 100N is applied on the massless pulley in upward direction ($g = 10$ ms^{-2})

(a)   0m/s^2, 0 m/s^2

(b)   0m/s^2, 2.5 m/s^2

(c)   1.25m/s^2, 2.5 m/s^2

(d)   2.5m/s^2, 0 m/s^2

Q9

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