Mathon Go

JEE Main 2020 Sample Paper

01

A tangential force of 20 N is applied on a cylinder of mass 4 kg and moment of inertia 0.02 kg m2 about its own axis. If the cylinder rolls without slipping, then linear acceleration of its centre of mass will be

- (a) $6.7 \,\mathrm{m/s^2}$
- (b) 10 m/s²
- (c) 3.3 m/s²
- (d) None of these



Q2

Two soap bubbles A and B are kept in a dased chamber where the air is maintained at pressure 8 N/m2. 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!

(m) 4

(b) 6

(c) 5

640 9

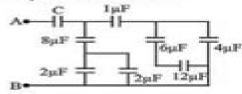
03

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

04

In the following circuit, the resultant capacitance between A and B is IµF. Then value of C is



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

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%

06

Two straight long conductors AOB and COD are perpendicular to each other and carry currents i, and in-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) $\frac{\mu_0}{2\pi a}(i_1+i_2)$

07

Dimensions of magnetic flux are

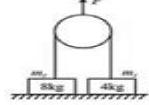
(a) MI2T-2A-1

- (c) MOI-27-24-3

08

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 $(c = 10 \text{ m/s}^{-2})$

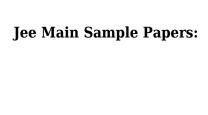
- (a) 0m/s2, 0 m/s2
- (b) 0m/s², 2.5 m/s²
- (c) 1.25m/s², 2.5 m/s²
- (d) 2.5m/s², 0 m/s²



OB

Jee Main Sample Papers

JR Anderson



Jee Main Sample Papers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Jee Main Sample Papers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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