

Q1

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

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



Q2

Two soap bubbles A and B are kept in a dashed chamber where the air is maintained at pressure  $8 \text{ N/m}^2$ . 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  $0.04 \text{ N/m}$ . 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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1. Understanding the eBook Jee Main Paper
  - The Rise of Digital Reading Jee Main Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Jee Main Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jee Main Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Main Paper
  - Personalized Recommendations
  - Jee Main Paper User Reviews and Ratings
  - Jee Main Paper and Bestseller Lists
5. Accessing Jee Main Paper Free and Paid eBooks

- Jee Main Paper Public Domain eBooks
- Jee Main Paper eBook Subscription Services
- Jee Main Paper Budget-Friendly Options
- 6. Navigating Jee Main Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Jee Main Paper Compatibility with Devices
  - Jee Main Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jee Main Paper
  - Highlighting and Note-Taking Jee Main Paper
  - Interactive Elements Jee Main Paper
- 8. Staying Engaged with Jee Main Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jee Main Paper
- 9. Balancing eBooks and Physical Books Jee Main Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jee Main Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jee Main Paper
  - Setting Reading Goals Jee Main Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jee Main Paper
  - Fact-Checking eBook Content of Jee Main Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development



- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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