

**PAPER-1 [Code – 5]**  
**JEE(ADVANCED) 2013**  
**PART - I: PHYSICS**

**SECTION – 1: (Only one option correct Type)**

This section contains 10 multiple choice questions. Each question has four choice (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

- \* 1. One end of a horizontal thick copper wire of length  $2L$  and radius  $2R$  is welded to an end of another horizontal thin copper wire of length  $L$  and radius  $R$ . When the arrangement is stretched by applying forces at two ends, the ratio of the elongation in the thin wire to that in the thick wire is  
 (A) 0.25 (B) 0.50  
 (C) 2.00 (D) 4.00

*Sol.*



$$k_1 = \frac{\pi 4R^2 x}{2L}, k_2 = \frac{\pi R^2 y}{L}$$

$$F = k_1 x = k_2 y \Rightarrow \frac{y}{x} = \frac{k_1}{k_2} = 2$$

- \* 2. The work done on a particle of mass  $m$  by a force  $\mathbf{K} \left[ \frac{x}{(x^2 + y^2)^{3/2}} \hat{i} + \frac{y}{(x^2 + y^2)^{3/2}} \hat{j} \right]$  ( $K$  being a constant of appropriate dimensions, when the particle is taken from the point  $(a, 0)$  to the point  $(0, a)$  along a circular path of radius  $a$  about the origin in the  $x$ - $y$  plane is  
 (A)  $\frac{2K\pi}{a}$  (B)  $\frac{K\pi}{a}$   
 (C)  $\frac{K\pi}{2a}$  (D) 0

*Sol.*

$$dw = \vec{F} \cdot d\vec{r} = \vec{F} \cdot (dx\hat{i} + dy\hat{j}) = K \int \frac{x dx}{(x^2 + y^2)^{3/2}} + \frac{y dy}{(x^2 + y^2)^{3/2}}$$

$$x^2 + y^2 = a^2$$

$$w = \frac{K}{a^2} \int_a^0 x dx + \int_0^a y dy = \frac{K}{a^2} \left( \frac{-a^2}{2} + \frac{a^2}{2} \right) = 0.$$

- \* 3. Two rectangular blocks, having identical dimensions, can be arranged either in configuration I or in configuration II as shown in the figure. One of the blocks has thermal conductivity  $\kappa$  and the other  $2\kappa$ . The temperature difference between the ends along the  $x$ -axis is the same in both the configurations. It takes 9 s to transport a certain amount of heat from the hot end to the cold end in the configuration I. The time to transport the same amount of heat in the configuration II is  
 (A) 2.0 s (B) 3.0 s  
 (C) 4.5 s (D) 6.0 s



# Jee Advanced 2013 Question Paper Pattern

**Disha Experts**



**Jee Advanced 2013 Question Paper Pattern:**

The book delves into Jee Advanced 2013 Question Paper Pattern. Jee Advanced 2013 Question Paper Pattern is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Jee Advanced 2013 Question Paper Pattern, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Jee Advanced 2013 Question Paper Pattern
- Chapter 2: Essential Elements of Jee Advanced 2013 Question Paper Pattern
- Chapter 3: Jee Advanced 2013 Question Paper Pattern in Everyday Life
- Chapter 4: Jee Advanced 2013 Question Paper Pattern in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Jee Advanced 2013 Question Paper Pattern. The first chapter will explore what Jee Advanced 2013 Question Paper Pattern is, why Jee Advanced 2013 Question Paper Pattern is vital, and how to effectively learn about Jee Advanced 2013 Question Paper Pattern.
3. In chapter 2, the author will delve into the foundational concepts of Jee Advanced 2013 Question Paper Pattern. The second chapter will elucidate the essential principles that need to be understood to grasp Jee Advanced 2013 Question Paper Pattern in its entirety.
4. In chapter 3, this book will examine the practical applications of Jee Advanced 2013 Question Paper Pattern in daily life. This chapter will showcase real-world examples of how Jee Advanced 2013 Question Paper Pattern can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Jee Advanced 2013 Question Paper Pattern in specific contexts. This chapter will explore how Jee Advanced 2013 Question Paper Pattern is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Jee Advanced 2013 Question Paper Pattern. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Jee Advanced 2013 Question Paper Pattern.

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