



Time : 3 hrs.

Max. Marks: 180

# Answers & Solutions

*for*

## JEE (Advanced)-2022 (Paper-2)

### PART-I : PHYSICS

## SECTION – 1 (Maximum marks : 24)

- This section contains **EIGHT (08)** questions.
- The answer to each question is a **SINGLE DIGIT INTEGER** ranging from 0 TO 9, **BOTH INCLUSIVE**.
- For each question, enter the correct integer corresponding to the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer.
- Answer to each question will be evaluated according to the following marking scheme:

**Full Marks** : +3 If **ONLY** the correct integer is entered;

**Zero Marks** : 0 If the question is unanswered;

**Negative Marks** : -1 In all other cases.

1. A particle of mass 1 kg is subjected to a force which depends on the position as  $\vec{F} = -k(x\hat{i} + y\hat{j})$  kg ms<sup>-2</sup> with  $k = 1$  kg s<sup>-2</sup>. At time  $t = 0$ , the particle's position  $\vec{r} = \left(\frac{1}{\sqrt{2}}\hat{i} + \sqrt{2}\hat{j}\right)$  m and its velocity  $\vec{v} = \left(-\sqrt{2}\hat{i} + \sqrt{2}\hat{j} + \frac{2}{\pi}\hat{k}\right)$  ms<sup>-1</sup>. Let  $v_x$  and  $v_y$  denote the  $x$  and the  $y$  components of the particle's velocity, respectively. Ignore gravity. When  $x = 0.5$  m, the value of  $(xv_y - yv_x)$  is \_\_\_\_\_ m<sup>2</sup>s<sup>-1</sup>.

**Answer (3)****Sol.**  $F_x = -x = ma_x$ 

$$\text{So } a_x = \frac{d^2x}{dt^2} = -x$$

$$\Rightarrow x = A_x \sin(\omega t + \phi_x) \quad (\omega = 1 \text{ rad/s})$$

# Jee Advanced Paper

**Xiang Xie**



**Jee Advanced Paper:**

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

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

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

2. In chapter 1, the author will provide an overview of Jee Advanced Paper. This chapter will explore what Jee Advanced Paper is, why Jee Advanced Paper is vital, and how to effectively learn about Jee Advanced Paper.

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