

Date: 28/08/2022



Corporate Office : Aakash Tower, 8, Pusa Road, New Delhi-110005 | Ph.: 011-47623456

Time : 3 hrs.

## Answers & Solutions

Max. Marks: 180

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.**  $F_x = -x = ma_x$

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

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

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## **Table of Contents Jee Advanced Paper Eduwave**

1. Understanding the eBook Jee Advanced Paper Eduwave
  - The Rise of Digital Reading Jee Advanced Paper Eduwave
  - Advantages of eBooks Over Traditional Books
2. Identifying Jee Advanced Paper Eduwave
  - 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 Advanced Paper Eduwave
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Advanced Paper Eduwave
  - Personalized Recommendations
  - Jee Advanced Paper Eduwave User Reviews and Ratings
  - Jee Advanced Paper Eduwave and Bestseller Lists
5. Accessing Jee Advanced Paper Eduwave Free and Paid eBooks

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