

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⁻² with $k = 1$ kg s⁻². 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⁻¹. 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 _____ m²s⁻¹.

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 2question Papers

Hussin A.Rothana



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Table of Contents Jee Advanced 2question Papers

1. Understanding the eBook Jee Advanced 2question Papers
 - The Rise of Digital Reading Jee Advanced 2question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Jee Advanced 2question Papers
 - 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 2question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Advanced 2question Papers
 - Personalized Recommendations

- Jee Advanced 2question Papers User Reviews and Ratings
- Jee Advanced 2question Papers and Bestseller Lists
- 5. Accessing Jee Advanced 2question Papers Free and Paid eBooks
 - Jee Advanced 2question Papers Public Domain eBooks
 - Jee Advanced 2question Papers eBook Subscription Services
 - Jee Advanced 2question Papers Budget-Friendly Options
- 6. Navigating Jee Advanced 2question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Jee Advanced 2question Papers Compatibility with Devices
 - Jee Advanced 2question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jee Advanced 2question Papers
 - Highlighting and Note-Taking Jee Advanced 2question Papers
 - Interactive Elements Jee Advanced 2question Papers
- 8. Staying Engaged with Jee Advanced 2question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jee Advanced 2question Papers
- 9. Balancing eBooks and Physical Books Jee Advanced 2question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jee Advanced 2question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jee Advanced 2question Papers
 - Setting Reading Goals Jee Advanced 2question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jee Advanced 2question Papers
 - Fact-Checking eBook Content of Jee Advanced 2question Papers

- 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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