

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.**  $F_x = -x = ma_x$

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

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

# Jee Advanced 2question Paper With Solutions

**ML Yell**



## **Jee Advanced 2question Paper With Solutions:**

**JEE Advanced 2017 Question by Question Analysis** Disha Experts, JEE Advanced 2017 Question by Question Analysis is an essential component for every aspirant of JEE Advanced 2018 The Analysis lucidly presents the Most Important Concepts focus of the 2017 examination and the level of Difficulty of each question Thus making you understand the importance of each chapter or concept The book further provides you the complete detailed solution of JEE Advanced 2017 Table of Contents Part I PHYSICS JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE Advanced 2017 Physics Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Physics Paper 2 Part II CHEMISTRY JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE ADVANCED 2017 Chemistry Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Chemistry Paper 2 Part III MATHEMATICS JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE ADVANCED 2017 Mathematics Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Mathematics Paper 2 **JEE Advanced 14 Year-wise Solved Papers**

**1 & 2 (2006 - 2019)** Disha Experts, 2019-07-02 JEE Advanced 14 Year wise Solved Papers 1 The book also provides the Trend Analysis of last 7 years in all the 3 subjects *42 Years (1978-2019) JEE Advanced (IIT-JEE) + 18 yrs JEE Main (2002-2019) Topic-wise Solved Paper Physics 15th Edition* Er. Sunil Batra, 2019-06-13 The book 42 Years IIT JEE Advanced 18 yrs JEE Main Topic wise Solved Paper PHYSICS is the first integrated book which contains topic wise collection of past JEE Advanced including 1978 2012 IIT JEE 2013 19 JEE Advanced questions from 1978 to 2019 and past JEE Main including 2002 2012 AIEEE 2013 19 JEE Main questions from 2002 to 2019 The book provides 2 Sets of JEE Main 2019 1 of each of the 2 Phases Paper 1 2 of JEE ADvanced 2019 The book is divided into 17 chapters The flow of chapters has been aligned as per the NCERT books Each chapter divides the questions into 9 categories as per the NEW IIT pattern Fill in the Blanks True False MCQ 1 correct MCQ more than 1 correct Passage Based Assertion Reason Multiple Matching Integer Answer and Subjective Questions All the Screening and Mains papers of IIT JEE have been incorporated in the book Detailed solution of each and every question has been provided for 100% conceptual clarity of the student Well elaborated detailed solutions with user friendly language provided at the end of each chapter Solutions have been given with enough diagrams proper reasoning to bring conceptual clarity The students are advised to attempt questions of a topic immediately after they complete a topic in their class school home The book contains around 3380 MILESTONE PROBLEMS IN Mathematics

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working in a plush office in a city Hundreds of kilometres away in Chhattisgarh Sudoku whizkid Vipul focused on the International Physics Olympiad and winning a top rank in the All India Joint Entrance Examination Success would mean a coveted seat in one of the Indian Institutes of Technology not to mention celebrity status amongst peers and in the family With an acceptance ratio far lower than Harvard or MIT the IIT JEE or JEE Advanced is one of the most competitive exams in the world So how do the toppers succeed Are there smart ways to prepare for the exam How does the students quest transform the lives of their families Through extensive interviews with JEE top rankers pioneering teachers and the many students who had to fight extraordinary odds to get into an IIT Soum Paul entrepreneur and IIT Kanpur alumnus puts together stories of fierce competition incredible hard work and sacrifice A fascinating account of the battle of a million brains

**Science Reporter ,2007      40 Years IIT-JEE Advanced + 16 yrs JEE Main Topic-wise Solved Paper**

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Sets of JEE Main 2019 1 of each of the 2 Phases Paper 1 2 of JEE ADvanced 2019 The book is divided into 22 chapters The flow of chapters has been aligned as per the NCERT books Each chapter divides the questions into 9 categories as per the NEW IIT pattern Fill in the Blanks True False MCQ 1 correct MCQ more than 1 correct Passage Based Assertion Reason Multiple Matching Integer Answer and Subjective Questions All the Screening and Mains papers of IIT JEE have been incorporated in the book Detailed solution of each and every question has been provided for 100% conceptual clarity of the student Well elaborated detailed solutions with user friendly language provided at the end of each chapter Solutions have been given with enough diagrams proper reasoning to bring conceptual clarity The students are advised to attempt questions of a topic immediately after they complete a topic in their class school home The book contains around 3380 MILESTONE PROBLEMS IN Mathematics      **The Poultry Keeper** ,1908      **Gardening Illustrated** ,1901      **The Agricultural Gazette and Modern Farming** ,1898      **The Children's Newspaper and Children's Pictorial** ,1919      **Work** ,1900      *The Commercial & Financial Chronicle* ,1923      *All India Reporter* ,1916 Vols 1 36 1914 1949 1999 issued in separate parts called sections e g Journal section Federal Court section Privy Council section Allahabad section Bombay section etc      **English Mechanic and Mirror of Science and Art** ,1902      **Cage Birds and Bird World** ,1921      **Scientific American** ,1880 Monthly magazine devoted to topics of general scientific interest      **Pacific Rural Press** ,1889      *Michigan Christian Advocate* ,1897

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