

10 Years Solved Papers Jee Main 2024: Your Gateway to JEE Main Excellence

The Joint Entrance Examination (JEE) Main is a highly competitive entrance exam that serves as the gateway to prestigious engineering institutes in India. To excel in this exam and secure a top rank, thorough preparation and strategic planning are essential. Our latest publication, "10 Years Solved Papers JEE Main 2024," is meticulously designed to empower you with the knowledge and practice you need to achieve your JEE Main aspirations.



10 Years Solved Papers Jee Main 2024 by Dorothy Bryant

★★★★☆ 4.6 out of 5

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Print length : 1098 pages

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Comprehensive Coverage of 10 Years of Papers

This book is a comprehensive compilation of solved papers from the past 10 years of JEE Main examinations. By meticulously analyzing these papers, we have identified recurring patterns, important concepts, and challenging questions. This comprehensive coverage provides you with an invaluable resource to understand the exam's structure, difficulty level, and the types of questions you can expect.

In-Depth Solutions and Expert Analysis

Each solved paper in this book is accompanied by detailed solutions and expert analysis. Our team of subject matter experts has meticulously explained every question, providing step-by-step solutions and insights into the underlying concepts. These detailed solutions not only help you understand the correct answers but also guide you through the thought process and problem-solving techniques required for success in JEE Main.

Targeted Practice and Revision

The primary objective of this book is to provide you with targeted practice and revision opportunities. By solving previous year's papers, you can identify your strengths and weaknesses, and focus your preparation accordingly. This targeted approach ensures that you spend your time and effort wisely, maximizing your chances of success.

Exam-Oriented Questions and Simulation Tests

In addition to solved papers, this book also includes a section of exam-oriented questions and simulation tests. These questions are carefully crafted to replicate the actual JEE Main exam environment. By practicing these questions, you can familiarize yourself with the exam pattern, time constraints, and the level of difficulty you can expect on the day of the exam.

Benefits of Using "10 Years Solved Papers JEE Main 2024"

- Gain a deep understanding of the JEE Main exam pattern and difficulty level.
- Practice with authentic questions from previous years' papers.

- Develop effective problem-solving techniques and enhance your analytical skills.
- Identify your strengths and weaknesses for targeted preparation.
- Build confidence and reduce exam anxiety through repeated practice.
- Achieve higher scores and secure a top rank in JEE Main 2024.

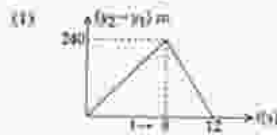
"10 Years Solved Papers JEE Main 2024" is an indispensable tool for aspiring JEE Main candidates. With its comprehensive coverage of solved papers, in-depth solutions, targeted practice questions, and simulation tests, it provides a complete and effective preparation strategy. By utilizing this book judiciously, you can gain the knowledge, skills, and confidence necessary to ace the JEE Main exam and embark on a successful engineering journey.

Free Download your copy today and take the first step towards your JEE Main triumph!

Questions and Solutions

PART - A : PHYSICS

1. Two stones are thrown up simultaneously from the edge of a cliff 240 m high with initial speed of 40 m/s and 30 m/s respectively. Which of the following graph best represents the time variation of relative position of the second stone with respect to the first? (Assume stones do not rebound after hitting the ground and neglect air resistance, take $g = 10 \text{ m/s}^2$. (The figures are schematic and not drawn to scale)



1. (3)
- For the second stone time required to reach the ground is given by

$$-240 = 30t - \frac{1}{2} \times 10 \times t^2$$

$$\Rightarrow 5t^2 - 6t - 48 = 0$$

$$\Rightarrow 5t^2 - 12t - 36 = 0$$

$$\Rightarrow t = 12 \text{ s}$$

For the first stone

$$-240 = 40t - \frac{1}{2} \times 10 \times t^2$$

$$\Rightarrow 5t^2 - 8t - 48 = 0$$

$$\Rightarrow 5t^2 - 18t - 48 = 0$$

$$\Rightarrow (t - 8)(t + 6) = 0$$

$$\Rightarrow t = 8 \text{ s}$$

During first 8 s, both the stones are in air.

$$\Rightarrow y_2 - y_1 = 30t$$

Graph of $(y_2 - y_1)$ against t is a straight line.

After 8 seconds

$$y_2 = 40t - \frac{1}{2} \times 10 \times t^2 - 240$$

Stones 2nd has accelerated with respect to stone 1st. Hence graph (3) is the correct description.

(Pg. 3)



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