

## PART II : PHYSICS

### SECTION – I (Total Marks : 21)

(Single Correct Answer Type)

This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

24. A police car with a siren of frequency 8 kHz is moving with uniform velocity 36 km/hr towards a tall building which reflects the sound waves. The speed of sound in air is 320 m/s. The frequency of the siren heard by the car driver is

(A) 8.50 kHz      (B) 8.25 kHz      (C) 7.75 kHz      (D) 7.50 kHz

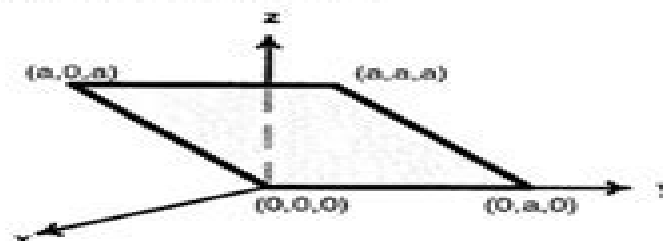
ANSWER : A

25. 5.6 liter of helium gas at STP is adiabatically compressed to 0.7 liter. Taking the initial temperature to be  $T_1$ , the work done in the process is

(A)  $\frac{9}{8} R T_1$       (B)  $\frac{3}{2} R T_1$       (C)  $\frac{15}{8} R T_1$       (D)  $\frac{9}{2} R T_1$

ANSWER : A

26. Consider an electric field  $\vec{E} = E_0 \hat{x}$ , where  $E_0$  is a constant. The flux through the shaded area (as shown in the figure) due to this field is



(A)  $2E_0a^2$       (B)  $\sqrt{2}E_0a^2$       (C)  $E_0a^2$       (D)  $\frac{E_0a^2}{\sqrt{2}}$

ANSWER : C

# 14november Physics Paper1

**J Spring**



## 14november Physics Paper1:

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## **Table of Contents 14november Physics Paper1**

1. Understanding the eBook 14november Physics Paper1
  - The Rise of Digital Reading 14november Physics Paper1
  - Advantages of eBooks Over Traditional Books
2. Identifying 14november Physics Paper1
  - 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 14november Physics Paper1
  - User-Friendly Interface
4. Exploring eBook Recommendations from 14november Physics Paper1
  - Personalized Recommendations
  - 14november Physics Paper1 User Reviews and Ratings
  - 14november Physics Paper1 and Bestseller Lists
5. Accessing 14november Physics Paper1 Free and Paid eBooks
  - 14november Physics Paper1 Public Domain eBooks
  - 14november Physics Paper1 eBook Subscription Services
  - 14november Physics Paper1 Budget-Friendly Options
6. Navigating 14november Physics Paper1 eBook Formats

- ePub, PDF, MOBI, and More
- 14november Physics Paper1 Compatibility with Devices
- 14november Physics Paper1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 14november Physics Paper1
  - Highlighting and Note-Taking 14november Physics Paper1
  - Interactive Elements 14november Physics Paper1
- 8. Staying Engaged with 14november Physics Paper1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 14november Physics Paper1
- 9. Balancing eBooks and Physical Books 14november Physics Paper1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 14november Physics Paper1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 14november Physics Paper1
  - Setting Reading Goals 14november Physics Paper1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14november Physics Paper1
  - Fact-Checking eBook Content of 14november Physics Paper1
  - 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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