

Questions and Solutions

PHYSICS

1. The mean free path of molecules of a gas, (radius ' r ') is inversely proportional to :
 (1) r (2) $\sqrt{r}$ (3) r^2 (4) r^3

1. (4)
 [Fact]

2. A particle is moving such that its position coordinates (x, y) are (2m, 3m) at time $t = 0$, (5m, 7m) at time $t = 2s$ and (13m, 14m) at time $t = 5s$.
 Average velocity vector $\langle \vec{V}_{av} \rangle$ from $t = 0$ to $t = 5s$ is :

- (1) $2(\hat{i} + \hat{j})$ (2) $\frac{11}{5}(\hat{i} + \hat{j})$ (3) $\frac{1}{5}(13\hat{i} + 14\hat{j})$ (4) $\frac{7}{5}(\hat{i} + \hat{j})$

2. (2)
 $\vec{r} = \vec{r}_2 - \vec{r}_0 = (13\hat{i} + 14\hat{j}) - (2\hat{i} + 3\hat{j}) = 11\hat{i} + 11\hat{j}$
 $\therefore \langle \vec{v} \rangle = \frac{\vec{r}}{\Delta t} = \frac{11}{5}(\hat{i} + \hat{j})$

3. Dependence of intensity of gravitational field (E) of earth with distance (r) from centre of earth is correctly represented by:



3. (4)
 [Fact]

4. When the energy of the incident radiation is increased by 20%, the kinetic energy of the photoelectrons emitted from a metal surface increased from 0.5 eV to 0.8 eV. The work function of the metal is:

- (1) 1.3 eV (2) 1.5 eV (3) 0.65 eV (4) 1.0 eV

4. (4)
 Original energy of photon be E_0
 $K_1 = E_0 - \phi \Rightarrow 0.5 \text{ eV} = E_0 - \phi \dots (i)$
 $K_2 = 1.2 E_0 - \phi \Rightarrow 0.8 \text{ eV} = 1.2 E_0 - \phi \dots (ii)$
 From equation (i) and (ii)
 $0.2\phi = (0.8 - 1.2 \times 0.5) \text{ eV} \Rightarrow \phi = 1 \text{ eV}$

5. In an ammeter 0.2% of main current passes through the galvanometer. If resistance of galvanometer is G , the resistance of ammeter will be:

- (1) $1/500 G$ (2) $500/499 G$ (3) $1/499 G$ (4) $499/500 G$

5. (1)
 Let the shunt resistance be S .

$$0.002 \times G = 0.998 \times S \Rightarrow S = \frac{G}{499}$$

$$\therefore \text{Resistance of ammeter} = \frac{\frac{G}{499} \times G}{G + \frac{G}{499}} = \frac{G}{500}$$

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Table of Contents Aipmt 20examination Paper Solutions

1. Understanding the eBook Aipmt 20examination Paper Solutions
 - The Rise of Digital Reading Aipmt 20examination Paper Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Aipmt 20examination Paper Solutions
 - 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 Aipmt 20examination Paper Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aipmt 20examination Paper Solutions
 - Personalized Recommendations
 - Aipmt 20examination Paper Solutions User Reviews and Ratings
 - Aipmt 20examination Paper Solutions and Bestseller Lists

5. Accessing Aipmt 20examination Paper Solutions Free and Paid eBooks
 - Aipmt 20examination Paper Solutions Public Domain eBooks
 - Aipmt 20examination Paper Solutions eBook Subscription Services
 - Aipmt 20examination Paper Solutions Budget-Friendly Options
6. Navigating Aipmt 20examination Paper Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Aipmt 20examination Paper Solutions Compatibility with Devices
 - Aipmt 20examination Paper Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aipmt 20examination Paper Solutions
 - Highlighting and Note-Taking Aipmt 20examination Paper Solutions
 - Interactive Elements Aipmt 20examination Paper Solutions
8. Staying Engaged with Aipmt 20examination Paper Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aipmt 20examination Paper Solutions
9. Balancing eBooks and Physical Books Aipmt 20examination Paper Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aipmt 20examination Paper Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Aipmt 20examination Paper Solutions
 - Setting Reading Goals Aipmt 20examination Paper Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aipmt 20examination Paper Solutions
 - Fact-Checking eBook Content of Aipmt 20examination Paper Solutions
 - 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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