

- (vii) The value of end correction for an open organ pipe of radius 'r' is _____.
- (a) $0.3 r$ (b) $0.6 r$ (c) $0.9 r$ (d) $1.2 r$

Q. 4. Distinguish between forced vibrations and resonance. Draw neat, labelled diagrams for the modes of vibration of a stretched string in second harmonic and third harmonic.

The area of the upper face of a rectangular block is $0.5 \text{ m} \times 0.5 \text{ m}$ and the lower face is fixed. The height of the block is 1 cm . A shearing force applied at the top face produces a displacement of 0.015 mm . Find the strain and shearing force. (Modulus of rigidity : $\eta = 4.5 \times 10^{10} \text{ N/m}^2$)

[7]

OR

Q. 4. Define phase of S.H.M. Show variation of displacement, velocity and acceleration with phase for a particle performing linear S.H.M. graphically, when it starts from extreme position.

A body starts rotating from rest. Due to a couple of 20 Nm it completes 60 revolutions in one minute. Find the moment of inertia of the body.

[7]

SECTION - II

Q. 5. Attempt any THREE :

[9]

- (i) In a biprism experiment, a slit is illuminated by a light of wavelength $4800 \text{ \AA}$. The distance between the slit and biprism is 15 cm and the distance between the biprism and eyepiece is 85 cm . If the distance between virtual sources is 3 mm , determine the distance between 4th bright band on one side and 4th dark band on the other side of the central bright band.

- (ii) Six capacitors of capacities $5, 5, 5, 5, 10$ and $X \mu\text{F}$ are connected as shown in the network in the diagram..

Find :

- (a) The value of X if the network is balanced, and
 (b) The resultant capacitance between A and C .
- (iii) Show that the current flowing through a moving coil galvanometer is directly proportional to the angle of deflection of coil.
- (iv) Explain the formation of energy band diagram in case of conductor and semiconductor.



Q. 6. Attempt any SIX :

[12]

- (i) Draw a neat labelled diagram showing the plane of vibration and plane of polarisation for polarised light.
- (ii) State the conditions to get steady interference pattern.
- (iii) In a hydrogen atom, an electron carrying charge 'e' revolves in an orbit of radius 'r' with speed 'v'. Obtain an expression for the magnitude of magnetic moment of a revolving electron.
- (iv) Draw a neat, labelled block diagram for a generalised communication system.
- (v) A red light of wavelength $6400 \text{ \AA}$ in air has wavelength $4000 \text{ \AA}$ in glass. If the wavelength of violet light in air is 4400 , find its wavelength in glass. (Assume that $\mu_r \approx \mu_v$)
- (vi) The magnetic moment of a magnet of dimensions $5 \text{ cm} \times 2.5 \text{ cm} \times 1.25 \text{ cm}$ is 3 Am^2 . Calculate the intensity of magnetization.

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Table of Contents Hsc 2014 Physics Paper Question

1. Understanding the eBook Hsc 2014 Physics Paper Question
 - The Rise of Digital Reading Hsc 2014 Physics Paper Question
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2014 Physics Paper Question
 - 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 Hsc 2014 Physics Paper Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2014 Physics Paper Question
 - Personalized Recommendations
 - Hsc 2014 Physics Paper Question User Reviews and Ratings
 - Hsc 2014 Physics Paper Question and Bestseller Lists
5. Accessing Hsc 2014 Physics Paper Question Free and Paid eBooks
 - Hsc 2014 Physics Paper Question Public Domain eBooks
 - Hsc 2014 Physics Paper Question eBook Subscription Services
 - Hsc 2014 Physics Paper Question Budget-Friendly Options
6. Navigating Hsc 2014 Physics Paper Question eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2014 Physics Paper Question Compatibility with Devices
 - Hsc 2014 Physics Paper Question Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2014 Physics Paper Question
 - Highlighting and Note-Taking Hsc 2014 Physics Paper Question
 - Interactive Elements Hsc 2014 Physics Paper Question
8. Staying Engaged with Hsc 2014 Physics Paper Question

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Hsc 2014 Physics Paper Question
- 9. Balancing eBooks and Physical Books Hsc 2014 Physics Paper Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2014 Physics Paper Question
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc 2014 Physics Paper Question
 - Setting Reading Goals Hsc 2014 Physics Paper Question
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc 2014 Physics Paper Question
 - Fact-Checking eBook Content of Hsc 2014 Physics Paper Question
 - 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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