

- (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 :

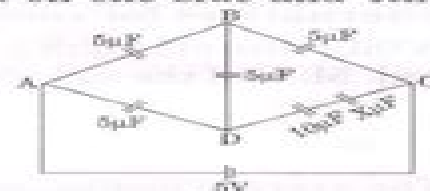
[9]

- (i) In a biprism experiment, a slit is illuminated by a light of wavelength 4800 \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 \AA in air has wavelength 4000 \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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