

Q. 3. Attempt any SIX :

- (i) Draw a neat labelled diagram of conical pendulum. State the expression for its periodic time in terms of length.
- (ii) A raindrop of diameter 4 mm is about to fall on the ground. Calculate the pressure inside the raindrop.
[Surface tension of water $T = 0.072 \text{ N/m}$, atmospheric pressure $= 1.013 \times 10^5 \text{ N/m}^2$]
- (iii) Discuss the weightlessness experienced by an astronaut in an orbiting satellite.
- (iv) The periodic time of a linear harmonic oscillator is 2π second, with maximum displacement of 1 cm. If the particle starts from extreme position, find the displacement of the particle after $\frac{\pi}{3}$ seconds.
- (v) State and prove : Law of conservation of angular momentum.
- (vi) A pinhole is made in a hollow sphere of radius 5 cm whose inner wall is at temperature 727°C . Find the power radiated per unit area.
[Stefan's constant $\sigma = 5.7 \times 10^{-8} \text{ J/m}^2\text{sK}^4$, emissivity (e) = 0.2]
- (vii) Draw a neat labelled diagram showing forces acting on the meniscus of water in a capillary tube.
- (viii) Compute the temperature at which the r.m.s. speed of nitrogen molecules is 832 m/s.
[Universal gas constant, $R = 8320 \text{ J/k mole K}$, molecular weight of nitrogen = 28.]

Q. 4. Attempt any THREE :

[9]

- (i) Discuss the behaviour of wire under increasing load.
- (ii) Determine the binding energy of satellite of mass 1000 kg revolving in a circular orbit around the Earth when it is close to the surface of Earth. Hence find kinetic energy and potential energy of the satellite. [Mass of Earth $= 6 \times 10^{24} \text{ kg}$, radius of Earth $= 6400 \text{ km}$; gravitational constant $G = 6.67 \times 10^{-11} \text{ Nm}^2 / \text{kg}^2$]
- (iii) Show that all harmonics are present on a stretched string between two rigid supports.
- (iv) A stone of mass 100 g attached to a string of length 50 cm is whirled in a vertical circle by giving velocity at lowest point as 7 m/s. Find the velocity at the highest point. [Acceleration due to gravity $= 9.8 \text{ m/s}^2$]

SECTION - II

Q. 5. Obtain an expression for average power dissipated in a purely resistive A.C. circuit. Define power factor of the circuit and state its value for purely resistive A. C. circuit.

[7]

A rectangular coil of a moving coil galvanometer contains 50 turns each having area 12 cm^2 . It is suspended in radial magnetic field 0.025 Wb/m^2 by a fibre of twist constant $15 \times 10^{-10} \text{ N-m/degree}$. Calculate the sensitivity of the moving coil galvanometer.

OR

State Bohr's third postulate for hydrogen (H_2) atom. Derive Bohr's formula for the wave number.

Obtain expressions for longest and shortest wavelength of spectral lines in ultraviolet region for hydrogen atom.

The photoelectric current in a photoelectric cell can be reduced to zero by a stopping potential of 1.8 volt. Monochromatic light of wavelength $2200 \text{ \AA}$ is incident on the cathode. Find the maximum kinetic energy of the photoelectrons in joules.

[Charge on electron $= 1.6 \times 10^{-19} \text{ C}$]

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**Melpomene Dixon, Kate Murphy, Amy
Hughes**

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