


APPLIED PHYSICS

(Common to Computer Science and Engineering, Information Technology,
 Artificial Intelligence and Machine Learning & Artificial Intelligence and Data Science)

Date: 01 September, 2023 FN

Time: 3 hours

Max Marks: 60

Answer All Questions

PART-A

1. a) Who proposed that material particle in motion possesses wave character? 1M
- b) Why do not we observe matter waves in heavy particle? 1M
- c) What is the intensity of central fringe of Newton's Ring in reflected light. 1M
- d) Write the condition of interference maxima in terms of path difference. 1M
- e) What is $f(E)$ values at $T = 0K$ for the cases (i) $E \leq E_c$, (ii) $E > E_c$? 1M
- f) The R_s of a specimen is $3.66 \times 10^{-4} \text{ m}^2 \text{ C}^{-1}$. Its resistivity is $8.93 \times 10^{-3} \text{ ohm-m}$. Find mobility and charge carrier concentration. 1M
- g) Why do two-level laser systems not exist? Give one reason. 1M
- h) Find the critical angle when a light ray propagates from a medium of refractive index 1.55 to medium of refractive index 1.475. 1M
- i) What is the meaning of CVD? 1M
- j) Sol-Gel method belongs to which approach. 1M

PART-B

2. a) Derive expression for de Broglie wavelength in terms of kinetic energy of the particle. Find the de Broglie wavelength associated with an electron accelerated through a potential difference of 1600 V. 5M
- b) Differentiate classical and quantum bits. (OR) 5M
- c) A particle is roaming freely in one dimensional potential well of infinite depth and width 'a'. Prove that the energy values possessed by particle are discrete. 5M
- d) What is quantum cryptography? What is the role of key in cryptography- Illustrate with one example. 5M
3. a) In Newton's ring experiment show that the diameter of the dark ring directly proportional to the square root of the natural number. 5M
- b) In a Newton's ring experiment the diameter of 9th dark ring is 0.38cm when a light of wavelength 5469 \AA used normally. Find the diameter of 18th dark ring. 5M
- c) Differentiate between Fresnel and Fraunhofer diffraction. (OR) 5M
- d) The distance between the slits in a double-slit experiment is 3 mm, and the slits are 2 m apart from the screen. On the screen, two interference patterns can be observed, one caused by light with a wavelength of 480 nm and the other by light with a wavelength of 600 nm. What is the distance between the fifth-order bright fringes of the two interference patterns on the screen? 5M
4. a) What is Hall effect? Show that the Hall coefficient is $R_h = \frac{V_{HF}}{IB}$ 6M
- b) A silicon plate of thickness 1 mm, breadth 10mm and length 100mm is placed in a magnetic field of 0.5 Wb/m² acting perpendicular to its breadth. If 10^{-3} A current flows along its length. Calculate hall voltage developed. $R_h = 3.66 \times 10^{-4} \text{ m}^2/\text{coulomb}$. 6M

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