



# VARDHAMAN COLLEGE OF ENGINEERING (AUTONOMOUS)

I B. Tech II Semester Regular Examinations, September – 2023  
(Regulations: VCE-R22)

## 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)  $E \leq E_f$  (ii)  $E > E_f$ ? 1M
  - f) The  $R_{300}$  of a specimen is  $3.66 \times 10^{-4} \text{ m}^3 \text{ c}^{-1}$ . 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. 5M

(OR)

  - 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 9<sup>th</sup> dark ring is 0.38cm when a light of wavelength 5469Å used normally. Find the diameter of 18<sup>th</sup> dark ring. 5M

(OR)

  - c) Differentiate between Frenel and Fraunhofer diffraction. 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  $R_H = \frac{V_H I}{I B}$  6M
  - b) A silicon plate of thickness 1 mm, breadth 10mm and length 100mm is placed in a magnetic field of  $0.5 \text{ Wb/m}^2$  acting perpendicular to its breadth. If  $10^{-2} \text{ A}$  current flows along its length. Calculate hall voltage developed.  $R_{300} = 3.66 \times 10^{-4} \text{ m}^3/\text{coulomb}$ . 4M

Cont...2

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Swansea 11-13 July 1988 where a forum was provided for discussion of the latest advances and techniques in the education of control and instrument engineers. Seven major topics were covered to aid lecturers in understanding developing and presenting systems engineering: control and measurement as a subject to undergraduate and postgraduate students; the teaching of real time computer control as a topic; and laboratory experiments for both continuous and discrete systems. These were discussed as was process control with the emphasis on providing the student with engineering experience by using scaled down equipment which would teach practical skills. Included in the Proceedings are papers on measurement and instrumentation, an area felt to be neglected within academic instruction. The development of software tools for systems design within systems engineering was included as was the exchange of teaching packages and methods between academics and the education curriculum of systems engineering within developing countries. These Proceedings will prove to be a useful up to date guide and reference source for all lecturers and professors involved in curriculum development and the teaching of control and measurement in systems engineering.

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