

F.E - II / App Physics-II / 24-11-14 QP Code : 11867

(2 Hours)

[Total Marks : 60

- N.B. :** (1) Questions No. 1 is compulsory.
 (2) Attempt any three questions from Q. Nos. 2 to 6.
 (3) Assume suitable data wherever required.

1. Attempt any five :-

15

- A Light of wavelength 5880 \AA is incident on a thin film of glass of R.I. = 1.5 such that the angle of refraction in the plate is 60° . Calculate the smallest thickness of the plate which will make it dark by reflection.
- What is grating and grating element ?
- Define the terms :-
 - Total internal reflection
 - Numerical Aperture
 - Acceptance angle.
- Differentiate spontaneous and stimulated emission of radiation.
- An electron is bound in one dimensional potential well of width 2 \AA but of infinite height. Find its energy values in second excited state.
- In phase measurement by lissajous pattern ellipse is obtained with major axis of 2 cm and minor axis of 0.8 cm. Calculate phase change.
- Why is superconductor termed as 'Perfect Diamagnet.'

- With proper digram and necessary expressions explain how Newton's ring experiment is useful to determine the radius of curvature of planoconvex lens. 8
 - Derive the expression for numerical Aperture for a step Index fibre. The N. A. of an optical fiber is 0.5 and core R.I. is 1.54. Find refractive index of cladding. 7
- With neat energy level diagram describe the construction and working of He-Ne Laser. 8
 - Explain the interference in thin parallel film and derive the expression for path difference between reflected rays, hence obtain the conditions of maxima and minima for interference with monochromatic light. 7
- For plane transmission grating prove that $d \sin \theta = n\lambda$, $n = 1, 2, 3, \dots$ 5
 - What is Heisenberg's uncertainty principle ? Prove that electron cannot servive in the nucleus. 5
 - Differentiate Type-I and Type-II superconductors. 5

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