

- N.B. (1) Question no 1 is compulsory.
 (2) Attempt any three questions from the remaining questions.
 (3) Assume suitable data and symbols if required.
 (4) Figures on the right indicate full marks.

1. Attempt any five:

- Why the Newton's rings are circular and fringes in wedge shaped film are straight?
- What is Rayleigh's criteria of resolution? How to increase resolving power diffraction grating?
- A fibre cable has an acceptance angle of 30° and core index of refractive index 1.4. Calculate the refractive index of cladding.
- What is pumping in Laser? Give the types of pumping.
- An electron is bound in one dimensional potential well of width $2.5\text{\AA}$ that of infinite height find its energy in first excited state.
- How Lissajous figures are used to measure unknown frequency.
- Why is superconductor is termed as perfect diamagnet?

2. (a) For Newton's ring, prove that diameters of n^{th} dark ring is directly proportional to the square root of natural number. In Newton's ring experiment the diameter of n^{th} and $(n+8)^{\text{th}}$ bright rings are 4.2mm and 7mm respectively. Radius of curvature of lower surface of lens is 2m. Determine the wavelength of light used. 08

- (b) What is monomode and multimode fibre? Explain the term V-number calculate the no of modes an optical fibre of $40\text{ }\mu\text{m}$ will transmit as its core and cladding refractive indices are 1.5 and 1.46 respectively. Wavelength of light used is $1.5\text{ }\mu\text{m}$. 07

3. (a) What is the fundamental principle of a Hologram? How is it produced and how is the image constructed by it? 08
- (b) Why we see beautiful colours in thin film when it is exposed to sunlight? Obtain expression for path difference between two reflected rays in thin transparent film of uniform thickness and write the conditions of maxima & minima. 07

TURN OVER

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