

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
(CUCBCSS—UG)

Physics/Applied Physics

PHY 5B 08/APY 5B 09—PHYSICAL OPTICS AND MODERN OPTICS

Time : Three Hours

Maximum : 80 Marks

Section A

Answer in a word or phrase.

Answer all questions. Each question carries 1 mark.

1. To determine optical rotation of solutions _____ is used.
(a) Interferometer. (b) Spectrometer.
(c) Magnetometer. (d) Polarimeter.
2. Wide separation of spectral lines indicates :
(a) High resolving power. (b) High magnifying power.
(c) High dispersive power. (d) None of these.
3. A biprism produce N_1 fringes with light of wavelength λ_1 . The number of fringes with wavelength λ_2 is _____.
(a) $\lambda_1 N_1 / \lambda_2$. (b) $\lambda_2 N_1 / \lambda_1$.
(c) $\lambda_1 / \lambda_2 N_1$. (d) $[\lambda_1 / \lambda_2]^{1/2} N_1$.
4. To invert a circularly polarized light, we use:
(a) Quarter wave plate. (b) Halfwave plate.
(c) Half shade device. (d) Biquartz device.
5. When focal length of a lens decreases, the field of view of the lens _____.
6. Colours of thin films are explained using the phenomenon called _____.
7. Which one is not used to produce interference pattern
(a) Biprism. (b) Two mirror.
(c) Newton's rings. (d) Nicol prism.

Turn over

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