

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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Table of Contents Science Physics Paper 5th Of June 2013

1. Understanding the eBook Science Physics Paper 5th Of June 2013
 - The Rise of Digital Reading Science Physics Paper 5th Of June 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Physics Paper 5th Of June 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Physics Paper 5th Of June 2013
 - User-Friendly Interface

4. Exploring eBook Recommendations from Science Physics Paper 5th Of June 2013
 - Personalized Recommendations
 - Science Physics Paper 5th Of June 2013 User Reviews and Ratings
 - Science Physics Paper 5th Of June 2013 and Bestseller Lists
5. Accessing Science Physics Paper 5th Of June 2013 Free and Paid eBooks
 - Science Physics Paper 5th Of June 2013 Public Domain eBooks
 - Science Physics Paper 5th Of June 2013 eBook Subscription Services
 - Science Physics Paper 5th Of June 2013 Budget-Friendly Options
6. Navigating Science Physics Paper 5th Of June 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Physics Paper 5th Of June 2013 Compatibility with Devices
 - Science Physics Paper 5th Of June 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Physics Paper 5th Of June 2013
 - Highlighting and Note-Taking Science Physics Paper 5th Of June 2013
 - Interactive Elements Science Physics Paper 5th Of June 2013
8. Staying Engaged with Science Physics Paper 5th Of June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Physics Paper 5th Of June 2013
9. Balancing eBooks and Physical Books Science Physics Paper 5th Of June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Physics Paper 5th Of June 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Physics Paper 5th Of June 2013
 - Setting Reading Goals Science Physics Paper 5th Of June 2013
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Science Physics Paper 5th Of June 2013
 - Fact-Checking eBook Content of Science Physics Paper 5th Of June 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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