

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  $\lambda_1$ . The number of fringes with wavelength  $\lambda_2$  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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