

17.10.2019 (Date) 10:00 AM (Time)



MAULANA ABUL KALAM AZAD UNIVERSITY OF THE HINDU ENCLAVE, WEST BENGAL

**PH-080
 PHYSICS - I**

Time Allowed: 3 Hours

Full Marks: 70

*The questions are of equal value.
 The figures in the margin indicate full marks.
 Candidates are requested to give their answers in their own words as far as practicable.
 All symbols are of usual significance.*

**GROUP A
 (Multiple Choice Type Questions)**

1. Answer any ten questions.

(10 × 7 = 70)

(a) Some portion of a simple pendulum having definite length will be
 (A) finite non-zero value (B) infinite
 (C) zero (D) cannot be estimated

(b) The quality factor (Q) for an L-C-R circuit is

- (A) $\frac{R}{\omega L}$ (B) $\frac{\omega L}{R}$
 (C) $\frac{R}{\omega C}$ (D) $\frac{\omega C}{R}$

PH-080

1

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17.10.2019 (Date) 10:00 AM (Time)

(a) Polarization conclusively proves that light waves are

- (A) longitudinal (B) progressive
 (C) stationary (D) transverse

(b) The relativistic energy-momentum relation is

- (A) $E^2 - p^2 = m_0^2 c^4$ (B) $E^2 - p^2 c^2 = m_0^2 c^4$
 (C) $E^2 - p^2 = m_0^2 c^2$ (D) $E^2 - p^2 c^2 = m_0^2 c^2$

(c) An α -particle is 4 times heavier than a proton. If a proton and an α -particle are moving with the same velocity then their De-Broglie wavelengths are related?

- (A) $\lambda_p = \lambda_\alpha$ (B) $\lambda_p = 4\lambda_\alpha$
 (C) $\lambda_p = \lambda_\alpha/4$ (D) $\lambda_p = 4\lambda_\alpha$

(d) Assuming that the atoms in a crystal are spheres of equal size and touching each other, it can be shown that the atomic radius of FCC lattice is equal to

- (A) $\frac{a}{\sqrt{2}}$ (B) $a\sqrt{\frac{3}{2}}$
 (C) $a\sqrt{\frac{3}{4}}$ (D) $\frac{a}{2\sqrt{2}}$

(e) In laser action, the spontaneous emission does not depend on

- (A) the number of atoms present in the excited state
 (B) the intensity of the incident light
 (C) the path of A and B
 (D) none of these

(f) If we measure the energy of a particle accurately then the uncertainty of the measurement of time becomes

- (A) 0 (B) ∞
 (C) $\frac{h}{E}$ (D) $\frac{h}{\Delta E}$

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1

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(a) According to Maxwell's law, frequency of a spectral line depends on
 (A) mass (B) atomic number
 (C) atomic weight (D) molecular weight

(b) The energy relaxation time τ_1 of a damped oscillator with damping coefficient γ is

- (A) $\tau_1 = \frac{1}{\gamma}$ (B) $\tau_1 = \frac{1}{2\gamma}$
 (C) $\tau_1 = \frac{1}{\gamma}$ (D) $\tau_1 = 2\gamma$

(c) In Young's double slit experiment the two coherent sources are produced by
 (A) division of wave front (B) division of amplitude
 (C) cut off filter (D) none of these

(d) The resolving power of a grating having number of slits N , of order m is

- (A) mN (B) $m^2 N$
 (C) N (D) N^2

(e) When a white light is incident on a plane diffraction grating the central maxima will be

- (A) dark (B) white
 (C) blue (D) red

(f) Newton's ring experiment is based on

- (A) division of amplitude (B) division of wave front
 (C) interference of frequency (D) division of phase angle

(g) According to Wien's displacement law

- (A) $\lambda_m T = \text{Constant}$ (B) $\frac{\lambda_m}{T} = \text{Constant}$
 (C) $\lambda_m T^2 = \text{Constant}$ (D) $\frac{\lambda_m}{T^2} = \text{Constant}$

PH-080

2

17.10.2019 (Date) 10:00 AM (Time)

**GROUP B
 (Short Answer Type Questions)**

Answer any three questions.

(3 × 3 = 9)

1. (a) Draw and explain the electrical equivalent circuit corresponding to damped oscillator.

2

(b) What is critical damping?

1

2. (a) Establish the relation between the logarithmic decrement and quality factor of a damped oscillatory system.

2

3. (a) What is resolving order of double slit diffraction pattern? Explain briefly why.

2

(b) What do you mean by resolving power of plane transmission grating?

1

(c) Write the Bragg's equation and explain it briefly.

1

4. (a) The refractive indices of double reflecting crystal for ordinary and extraordinary rays are 1.56 and 1.54 respectively, for wavelength $\lambda = 5000 \text{ \AA}$. Determine the thickness of the crystal to produce half wave plate.

2

(b) Describe briefly the principle of operation of a laser.

1

5. (a) What is Compton effect?

1

(b) Explain the Compton shift in wavelength for an electron. Explain the origin of unshifted low-angle scattering.

2+1

6. (a) A particle enters below the surface of crystal. What is Bragg's lattice?

1+1

(b) The absorption spacing of a photo diode crystal is 1.2 \AA and the angle for the maximum Bragg's reflection is 30° . Determine the energy of the X-ray beam in eV.

1

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4

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Table of Contents S For Engineering Physics Ph 101

1. Understanding the eBook S For Engineering Physics Ph 101
 - The Rise of Digital Reading S For Engineering Physics Ph 101
 - Advantages of eBooks Over Traditional Books
2. Identifying S For Engineering Physics Ph 101
 - 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 S For Engineering Physics Ph 101
 - User-Friendly Interface
4. Exploring eBook Recommendations from S For Engineering Physics Ph 101

- Personalized Recommendations
 - S For Engineering Physics Ph 101 User Reviews and Ratings
 - S For Engineering Physics Ph 101 and Bestseller Lists
5. Accessing S For Engineering Physics Ph 101 Free and Paid eBooks
 - S For Engineering Physics Ph 101 Public Domain eBooks
 - S For Engineering Physics Ph 101 eBook Subscription Services
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 6. Navigating S For Engineering Physics Ph 101 eBook Formats
 - ePub, PDF, MOBI, and More
 - S For Engineering Physics Ph 101 Compatibility with Devices
 - S For Engineering Physics Ph 101 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of S For Engineering Physics Ph 101
 - Highlighting and Note-Taking S For Engineering Physics Ph 101
 - Interactive Elements S For Engineering Physics Ph 101
 8. Staying Engaged with S For Engineering Physics Ph 101
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers S For Engineering Physics Ph 101
 9. Balancing eBooks and Physical Books S For Engineering Physics Ph 101
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection S For Engineering Physics Ph 101
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine S For Engineering Physics Ph 101
 - Setting Reading Goals S For Engineering Physics Ph 101
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of S For Engineering Physics Ph 101

- Fact-Checking eBook Content of S For Engineering Physics Ph 101
 - 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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