



**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 × 1 = 10)

- (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)  $\frac{\omega C}{R}$

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Full Marks

- (c) Polarization conclusively proves that light waves are  
 (A) longitudinal (B) progressive  
 (C) stationary (D) transverse
- (d) 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)  $E^2 - p^2 c^2 = m_0^2 c^2$
- (e) An  $\alpha$ -particle is 4 times heavier than a proton. If a proton and an  $\alpha$ -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)  $\lambda_p = 4\lambda_\alpha$
- (f) 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 BCC lattice is equal to  
 (A)  $\frac{a}{\sqrt{2}}$  (B)  $a\sqrt{\frac{3}{4}}$   
 (C)  $a\sqrt{\frac{3}{2}}$  (D)  $\frac{a}{\sqrt{3}}$
- (g) In Young's setup, the spacing between fringes is dependent on  
 (A) the number of slits present in the screen slit  
 (B) the intensity of the incident light  
 (C) the width of S<sub>1</sub> and S<sub>2</sub>  
 (D) none of these
- (h) If we measure the energy of a particle accurately then the uncertainty of the measurement of time becomes  
 (A) 0 (B)  $\infty$   
 (C)  $\frac{h}{2}$  (D)  $h$

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- (i) According to Maxwell's law, frequency of a spectral line depends on  
 (A) mass (B) atomic number  
 (C) atomic weight (D) molecular weight
- (ii) The energy relaxation time  $\tau$  of a damped oscillator with damping coefficient  $\gamma$  is  
 (A)  $\tau = \frac{1}{\gamma}$  (B)  $\tau = \frac{1}{2\gamma}$   
 (C)  $\tau = \frac{1}{4\gamma}$  (D)  $\tau = 2\gamma$
- (iii) 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
- (iv) The resolving power of a grating having number of slits  $N$ , of order  $m$  is  
 (A)  $mN$  (B)  $N^2$   
 (C)  $N$  (D)  $N^3$
- (v) When a white light is incident on a plane diffraction grating the central maxima will be  
 (A) dark (B) white  
 (C) blue (D) red
- (vi) Newton's ring experiment is based on  
 (A) division of amplitude (B) division of wave front  
 (C) division of frequency (D) division of phase angle
- (vii) 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)  $\frac{\lambda_m}{T^2} = \text{Constant}$

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**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)
- (c) Establish the relation between the logarithmic decrement and quality factor of a damped oscillatory system. (2)
2. (a) What is resolving order of double slit diffraction pattern? Explain briefly why. (2)
- (b) What do you mean by resolving power for plane transmission grating? (1)
- (c) Write the Rayleigh's criteria for resolution of light. (1)
3. (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)
4. (a) What is Compton effect? (1)
- (b) A photon of Compton shift is wavelength for an electron. Explain the origin of unshifted beam in Compton scattering. (2)
5. (a) A diode emits light from the  $(111)$  crystal. What is Bragg's lattice? (1)
- (b) The interplanar spacing of a cubic crystal is  $1.2 \text{ \AA}$  and the angle for the maximum Bragg's reflection is  $30^\circ$ . Determine the energy of the X-ray beam in eV. (1)

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