

DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY  
JALANDHAR

B.Tech. – I/II SEMESTER

PH-101 Physics

End Semester Exam (summer Course June 21, 2012)

Duration: 3 hours

Max Marks: 50

Note: Attempt all questions.

1. (a) Show that vector  $\vec{A} = -\frac{2xz}{x^2} \hat{i} + \frac{z^2}{x^2} \hat{j} + \frac{2yz}{x^2} \hat{k}$  is irrotational.

(3)

- (b) Derive an expression for Clausius Mossotti relation.

(4)

2. Write Maxwell's equations and discuss their physical significance.

(4)

3. State Biot-Savart's Law. Use the same to find the field strength at the centre of a current carrying circular loop.

(4)

4. (a) Find the relation between Einstein's coefficients.

(3)

- (b) Explain the construction and working of He-Ne laser. Draw the energy level diagram and indicate the wavelength of radiation.

(4)

5. Derive an expression for the Einstein's mass- energy relation.

(3)

6. Determine mass and speed of an electron having kinetic energy 100 keV.

(4)

7. Using Uncertainty Principle, establish the fact the electrons cannot reside inside a nucleus.

(3)

8. What is a wave packet? Prove that group velocity is equal to velocity of the moving particle.

(5)

9. (i) A particle of mass  $m$  confined to move inside an infinite deep potential well

$$V(x) = \begin{cases} +\infty & x < a \\ 0 & 0 \leq x \leq a \\ +\infty & x > a \end{cases}$$

Find the wave function and energy of the particle.

(4)

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