

Section-A (Objective Type Question)

(5×2=10)

Note:- Attempt all questions. Each question carries 02 marks.

Q. 01 Choose the correct option :-

- (i). The value of principle quantum Number (n) the first excited state of hydrogen atom is :-
(a) $n = 1$ (b) $n = 0$ (c) $n = 2$ (d) None of these
- (ii). According to variation method the ground state energy of the helium atom is :-
(a) $-2.75 \text{ e}^2/a_0$ (b) $-2.85 \text{ e}^2/a_0$ (c) $+2.75 \text{ e}^2/a_0$ (d) $+2.85 \text{ e}^2/a_0$
- (iii). K. G. Equation is given as :-
(a) $\nabla^2 \varphi - \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} + \frac{m^2 c^2}{\hbar^2} \varphi = 0$ (b) $\nabla^2 \varphi - \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} - \frac{m^2 c^2}{\hbar^2} \varphi = 0$
(c) $\nabla^2 \varphi + \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} - \frac{m^2 c^2}{\hbar^2} \varphi = 0$ (d) $\nabla^2 \varphi + \frac{1}{c^2} \frac{\partial^2 \varphi}{\partial t^2} + \frac{m^2 c^2}{\hbar^2} \varphi = 0$
- (iv). Dirac's equation is :-
(a) $H = c \vec{\alpha} \cdot \vec{P} + \beta mc^2$ (b) $H = c \vec{\alpha} \cdot \vec{P} - \beta mc^2$
(c) $H + c \vec{\alpha} \cdot \vec{P} - \beta mc^2 = 0$ (d) None of these
- (v). For $\mu = \nu$, the metric tensor $g_{\mu\nu}$ is
(a) 0 (b) 1 (c) ∞ (d) -1

Section-B (Short Answer Type Question)

(5×7=35)

Note:- Attempt any five questions. Each question carries 07 marks.

- Q. 02 What is variation method? Find out the ground state energy of hydrogen atom with it?
- Q. 03 What is Stark effect? Explain the first order Stark effect in hydrogen atom.
- Q. 04 What is W. K. B. approximation? Explain its principle.
- Q. 05 Explain the Fermi - Golden Rule.
- Q. 06 Explain the harmonic perturbation.
- Q. 07 What is K. G. Equation? Drive the equation of continuity with it.
- Q. 08 Derive the K. G. Equation in electromagnetic field.
- Q. 09 Explain Born - approximation. Derive the condition for validity of it.
- Q. 10 Explain adiabatic approximation method.
- Q. 11 Explain Einstein's A and B Coefficients.

Section-C (Long Answer Type Question)

(2×20=40)

Note:- Attempt any two questions. Each question carries 20 marks.

- Q. 12 What is perturbed harmonic oscillator? Find out the first order and second order perturbation energy when -
(a) Perturbation energy term is $\propto x$ (b) Perturbation energy term is $\propto x^2$
- Q. 13 Explain the time - dependent perturbation theory? Find the transition probability of the system for the transition from with state to K^{th} state and also give its physical significance.
- Q. 14 Explain the motion of a charged particle in an electromagnetic field with the help of Time - dependent perturbation theory.
- Q. 15 What is Dirac's equation? Find the Dirac's equations for free particle.
- Q. 16 Find the differential scattering cross - section with the help of partial Wave analysis?

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