

$$\therefore E_n = \frac{n^2 h^2}{8\pi^2 m} \quad (n = 1, 2, 3, \dots)$$

This shows that the energy of the particle can have only certain values which are Eigen values.

Free particle :

1. Here free particle means that particle is not acted upon by any force. Hence potential energy is zero and it is moving in positive x direction.

2. Schrodinger equation in one dimension is

$$\frac{\partial^2 \psi}{\partial x^2} + \frac{8\pi^2 m}{h^2} E \psi = 0 \quad \therefore \frac{\partial^2 \psi}{\partial x^2} + K^2 \psi = 0$$

$$\text{here } K^2 = \frac{8\pi^2 m E}{h^2}$$

2. As particle is considered to be free i.e. without boundary conditions on K. i.e. all values of K are allowed and hence all values of energy are allowed.

3. From expression of $K^2 = \frac{8\pi^2 m E}{h^2}$

$$\therefore K = \sqrt{\frac{2mE}{h^2}}$$

$$\text{Using } E = \frac{p^2}{2m}$$

$$\therefore K = \sqrt{\frac{2m}{h^2} \cdot \frac{p^2}{2m}} = \frac{p}{h} = \frac{1}{\lambda}$$

hence K describes the wave properties of particle and according to uncertainty principle position becomes uncertain.

$$\text{As } E = \frac{h^2}{8\pi^2 m} K^2$$

$$\therefore E \propto K^2$$

Chapter 6 : Magnetic Materials & Circuits [Total Marks - 18]

Q. 1(f) Differentiate between soft and hard magnetic materials.

(3 Marks)

Ans. :

Sr. No.	Soft magnetic material	Hard magnetic material
1.	Hysteresis loops encloses very small area.	Hysteresis loops encloses large area.
2.	Can not permanently magnetized.	Permanent magnets.
3.	Low remanent magnetization.	High remanent magnetization.
4.	Low hysteresis loss.	High hysteresis loss.
5.	Low coercivity.	High coercivity.
6.	High initial permeability.	Low initial permeability.

Q. 6(a) Discuss Weiss's Theory of Ferromagnetism and derive Curie-Weiss's Law $\chi = C / (T - \theta)$

(9 Marks)

Ans. :

Weiss Theory :

1. The Weiss molecular field theory of ferromagnetism represents the first realistic attempt to account for the properties of a ferromagnet. This theory is based upon the following two hypothesis.

(a) Below the Curie temperature, a ferromagnetic substance is composed of a small spontaneously magnetized regions known as domain. The total magnetic moment of the material is the vector sum of the magnetic moments of the individual domains. It is known to us that these assumed domains really exists.

(b) Each domain is spontaneously magnetized because a strong molecular field tends to align the individual atomic magnetic moments within the domain.

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