

ISC Boards 2023

Physics

Question 1.

A. In questions (i) to (vii) given below, choose the correct alternative (a), (b), (c) or (d) for each of the questions.

- (i) A hollow sphere of radius R has a point charge Q at its centre. Electric flux emanating from it is ϕ . If both the charge and the radius of the sphere be doubled, electric flux emanating from the sphere will:
- Remain the same.
 - Become 2ϕ
 - Become 4ϕ
 - Become 8ϕ

Answer (b)

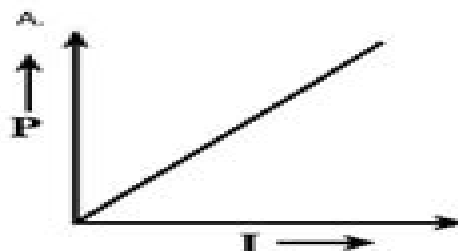
Gauss law states that, Electric flux,

$$\Delta\phi = \frac{q_{in}}{\epsilon_0}, \quad q_{in} = \text{charge enclosed}$$

$$\Delta\phi_1 = \frac{Q}{\epsilon_0}, \Delta\phi_2 = \frac{2Q}{\epsilon_0}$$

$$\Delta\phi_2 = 2\Delta\phi_1$$

- (ii) An electric current (I) flowing through a metallic wire is gradually increased. The graph of heating power (P) developed in it versus the current (I) is:



March Grade 12 Physics Questions Paper

Robert R. Redfield



March Grade 12 Physics Questions Paper:

March Grade 12 Physics Questions Paper Book Review: Unveiling the Magic of Language

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