

Moderate

Assistant Engineer (Electrical), Class II

2025

Building Department

,

$$E = 2J$$
$$J = x^2 \quad x = 0 \qquad x = 1$$

- A

1/3
- B

2/3

Correct
- C

1
- D

4/3

Correct Answer: B

Full Detailed Explanation

$p_v = E \cdot J \text{ in } \frac{\text{W}}{\text{m}^2}$

$E = 2 \quad J = x$

$x = 0 \quad x = 1$

$x = \frac{1}{3} \quad x = \frac{2}{3}$

$\therefore \frac{p_v}{E \cdot J} = \frac{E \cdot J}{E \cdot J} = 1$