

Easy

Deputy Executive Engineer (Electrician) 2026

Uttar Pradesh Power Corporation Limited / Assistant Engineer (Electrical)

$$= 500 \text{ W}$$
$$= 500 \text{ W} \times 1.$$

- A

1, 2, 3
- B

1, 2, 3, 4

Correct
- C

2, 3
- D

1, 2, 4

Correct Answer: B

Full Detailed Explanation

Let  $x$  p.u. be the fault current.

Given:  $P_{cu}(x) = x^2 P_{cu,FL}$

At  $x = 1$ ,  $P_{cu}(1) = 500 \text{ W}$

$500 = 1^2 P_{cu,FL}$

$P_{cu,FL} = 500 \text{ W}$

At  $x = 0.5$ ,  $P_{cu}(0.5) = 0.25 \times 500 = 125 \text{ W}$

∴ B