

26 An alternating potential difference is connected across a fixed resistor and the frequency f of the supply is varied, keeping the r.m.s voltage constant. The mean rate of production of heat in the resistor is

- A** proportional to f
- B** proportional to $f^{1/2}$
- C** inversely proportional to f
- D** independent of f

27 A 10 MW nuclear power station produces electrical power at 600 V. It uses an ideal step up