

- 25** When a light bulb is connected across a sinusoidal alternating current source of peak voltage 170 V, the mean power dissipated is 40 W. Two such light bulbs are now connected in series to the electrical mains of 220 V_{r.m.s.}

What would be the total mean power dissipated?

- A** 34 W
- B** 67 W
- C** 80 W
- D** 130 W