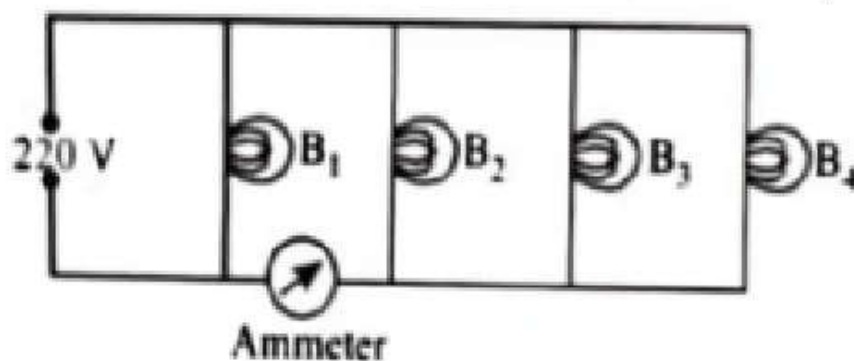


Q 05 Four bulbs B_1 , B_2 , B_3 and B_4 of 100 W each are connected to 220 V main as shown in the figure.

[Online April 19, 2014]



The reading in an ideal ammeter will be:

- (a) 0.45 A (b) 0.90 A (c) 1.35 A (d) 1.80 A

(c) Current in each bulb = $\frac{\text{Power}}{\text{Voltage}}$

$$= \frac{100}{220} = 0.45\text{A}$$

$$\text{Current through ammeter} = 0.45 \times 3 = 1.35\text{ A}$$