

6. The charge of 10 through the conduct		through the conduct	or for 2 s. the e	electric current	flowing
(a)2A (b)3A	. (c)4A	(d)5A			
7. A fuse wire repea wire of	tedly gets burr	nt when used with a g	good heater. It	is advised to u	se a fuse
(a) more length (c) less length		(b) less radius (d) more radius			
8. If R_1 and R_2 be the then	e resistance of	the filament of 40 W	and 60 W resp	ectively opera	ting 220 V,
(a) R ₁ < R ₂	(b) R ₂ < R ₁	(c) R ₁ = R ₂	(d)	$R_1 \ge R_2$	
9. The unit of electrical resistance is:					
(a). Ampere	(b) Volt	<mark>(c</mark>) Coulomb	(d) Ohm		
10. The commercial unit of energy is: (a) Watt (b) Watt-hour (c) Kilowatt-hour (d) Kilo-joule II. Redraw the given circuit diagram using the electric symbols.					
		a 12 V car battery dr	aws a current (of 0.5 A. The re	sistance of
the light bulb is					
2. A fuse wire is con	nected in	with	_wire	4 Ω	6 Ω
3. The effective resis	stance betwee	n A and B is	õ-		

4. The maximum resistance which can be made using five resistors each of $1/5 \ \Omega$ is _____

5. 1 mV is equal to_____

6. 100 J of heat is produced each second in a 4Ω resistor. The potential difference across the resistor will be _____

IV. State whether the following statement is true or false:

1. In an open circuit, the current passes from one terminal of the electric cell to another.(True/False)

- 2. Current is a scalar quantity. (True/False)
- 3. Presence of argon prolongs the life of an electric bulb(True/ False)

4. Rheostat used in series in a circuit can make a bulb to glow with varying brightness. [True/False]

5. One common point and no sharing devices for that point are the conditions to be satisfied for two resistors to be in series. [True/False]

V. Solve the problems :

1. Find the current drawn from the battery by the network of four resistors Shown in the figure.



2. A bulb is rated at 200 V, 100 W. Calculate its resistance. Five such bulbs bum for 4 hours daily. Calculate the units of electrical energy consumed per day. What would be the cost of using these bulbs per day at the rate of ₹4.00 per unit?