1. Which of the given is the SI Unit of Elec A Ohm	tric Current? B. Ampere
C. Volt	D. Faraday
2. The instrument used for measuring elect A. Ammeter C. Voltmeter	<b>tric current is:</b> B. Galvanometer D. Potentiometer
<ul> <li>3. The amount of work done in joules, when another point in an electric circuit is called</li> <li>A. Electric current</li> <li>C. Electric conductance</li> </ul>	n one unit electric charge moves from one point to : B. Electric resistance D. Potential difference
4. The relation between potential difference A. V $\alpha$ I2 C. V2 $\alpha$ I	<b>e (V) and current (I) is:</b> Β. V α 1/Ι D. V α Ι
5. A battery of 12V is connected in series w 12 ohm. How much current would flow thro A. 0.895A C. 0.5A	vith resistors of 0.2 ohm, 0.3 ohm, 0.4 ohm, 0.5 ohm and ough the 0.3 ohm resistor? B. 1.11A D. None of these
<ul><li>6. On which of the given resistance does n</li><li>A. Length of conductor</li><li>C. Temperature</li></ul>	<b>ot depend:</b> B. Area of cross-section D. Density
<ul><li>7. There is wire of length I and cross section</li><li>A. Length doubled, Area halved</li><li>C. Length halved, Area doubled</li></ul>	on A. Which of the given have least resistance? B. Length tripled, Area doubled D. The original wire
8. A resistor of length I is connected to a base of a parts by length. And all having the same same battery, the current flowing through the A. I/3 C. I	attery and current I is given through it. If it is divided into cross sectional area are connected in series with the them will be? B. 3I D. 3I/2
<ul><li>9. If the current flowing through a fixed res</li><li>A. Double</li><li>C. One-fourth</li></ul>	<b>sistor is halved, the heat produced in it will become:</b> B. Half D. Four times
<b>10. An electric heater is rated at 2 Kw. Elec</b> <b>using the heater for 3 hours?</b> A. Rs. 12 C. Rs. 36	trical energy costs Rs 4 per k Wh. What is the cost of B. Rs. 24 D. Rs. 48
<ul><li><b>11. An electric fuse works on the:</b></li><li>A. Chemical effect of current</li><li>C. Lighting effect of current</li></ul>	B. Magnetic effect of current D. Heating effect of current
<b>12. The resistivity of copper metal depends</b> A. Length C. Temperature	s on only one of the following factors. This factor is: B. Thickness D. Area of cross-section
13. When a 4 $\Omega$ resistor is connected across coulombs passing through the resistor per $A.~0.3$	es the terminals of a 12 V battery, the number of r second is: B. 3
C. 4	D. 12

14. A wire of resistant then connected in part	ce $R_1$ is cut into five equal pieces. These five pieces of wire are allel. If the resultant resistance of this combination be $R_2$ , then the
ratio R <sub>1</sub> / R <sub>2</sub> is:	
(a) 1/25	(b) 1/5

(c) 5	(d) 25

15. A battery of 10 volt carries 20,000 C of charge through a resistance of 20  $\Omega$ . The work done in 10 seconds is

(a) 2 × 10 <sub>3</sub> joule	(b) 2 × 10⁵joule
(c) 2 × 10⁴ joule	(d) 2 × 10 <sup>2</sup> joule

16. a cooler of 1500 W, 200 volt and a fan of 500 W, 200 volt are to be used from a household supply. The rating of fuse to be used is

	 <b>U</b>	
(a) 2.5 A		(b) 5.0 A
(c) 7.5 A		(d) 10 A

17.1 kWh = J	
(a) 3.6 × 10 <sup>.</sup> J	(b) 13.6 × 10 <sup>6</sup> J
(c) 3.6 × 10 <sup>6</sup> J	(d) 13.6 × 10 <sup>-6</sup> J

18. The resistance of a conductor is  $27 \Omega$ . If it is cut into three equal parts and connected in parallel, then its total resistance is

19. On which of the following no plus a	nd minus sign is marked
(c) 9Ω	(d) 27Ω
(a) 6Ω	b) 3Ω

(a) a battery	(b) a resistor
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(c) An ammeter (d) voltmeter