Electricity - Class X - Paper Set 4

1. Which instrument is	used to measure potentia	l difference across two p	points in a circuit?	
A) Ammeter	B) Voltmeter	C) Galvanometer	D) Multimeter	
2. The reciprocal of resi	stance is known as:			
A) Conductance	B) Inductance	C) Capacitance	D) Impedance	
3. In a parallel circuit, the	ne total resistance is:			
A) The same as the smallest resistance		B) Less than the smallest resistance		
C) Equal to the sum of all resistances		D) Greater than the largest resistance		
4. Which law is used to	calculate the net current	entering and leaving a j	unction?	
A) Ohm's Law		B) Kirchhoff's Voltage Law		
C) Kirchhoff's Current Law		D) Joule's Law		
5. If the resistance of a	wire is R, and its radius i	s halved, the new resista	ance will be:	
A) 2R	B) R/2	C) 4R	D) R/4	
6. Electric power is the	product of:			
A) Voltage and resistance		B) Current and resistance		
C) Voltage and current		D) Resistance and capacitance		
7. What is the SI unit of	electric charge?			
A) Ampere	B) Joule	C) Coulomb	D) Watt	
8. Which combination of	of resistors will have the	highest equivalent resist	ance?	
A) Two resistors in parallel		B) Two resistors in series		
C) One resistor only		D) Infinite resistors in parallel		
9. An electric fuse work	s on the principle of:			
A) Thermal effect of current		B) Magnetic effect	B) Magnetic effect of current	
C) Chemical effect of current		D) None of the above	D) None of the above	

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10. A current of 3 A flows through a resistor of 5 Ω . What is the power dissipated in the resistor?

A) 15 W

- B) 30 W
- C) 45 W
- D) 60 W

Answers - Paper Set 2

- 1. B
- 2. A
- 3. B
- 4. C
- 5. C
- 6. C
- 7. C
- 8. B
- 9. A
- 10. C