JSUNIL TUTORIAL, SAMASTIPUR

CBSE Test paper Chapter- Electricity-01

Fm: 30 Time: 45 min.

One mark questions

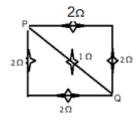
- 1. Define the term "electric current".
- 2. Define the term 'resistivity' of a material.
- 3. How is a Voltmeter connected in the circuit to measure the potential difference between two points?
- 4. You have two metallic wires of resistances 6 ohm and 3 ohm. How will you connect these wires to get the effective resistance of 2 ohm?
- 5. If the distance between two electric charges is doubled, how much will the force exerting between them change to?

Two marks questions

- 6. State Ohm's law. "The resistance of a conductor is 1Ω ." What is meant by this statement?
- 7. Why are coils of electric toaster made of an alloy rather than a pure metal?
- 8. Why is the series arrangement not used for domestic circuits?
- 9. A wire of resistivity ' ρ ' is stretched to double its length. How does it affect the (a) resistance (b) resistivity?
- 10. Write 2 points of difference between direct and alternate current

3 marks questions

- 11. Derive the equation for resultant resistance of Resistors in series
- 12. How much work is done in moving a charge of 3 coulumb from a point at the volts 115 to a point at 125 volts?[30j]
- 13. A heater wire whose power is 4KW is connected to 220 V source calculate:-
- (i) Electric current in the circuit (ii) Resistance of heater (iii) Energy consumed in 2 hours.
- 14. Calculate the effective resistance between P and Q.



- 15. (a) Which has more resistance: 100W bulb or 60W bulb?
- (b) A wire of resistance 5Ω is bent in the form of a closed circle. What is the effective resistance between the two points at the end of any diameter of the circle?

For More Practice update: http://jsuniltutorial.weebly.com Ph: 9835859669