ONE TWO ACADEMY
STD 10 SCIENCE
Electricity
Total:- 25 marks Time:- 45 minutes
Answer the following questions: $4 \ge 1 = 4$
1. One horsepower = watt.
2. What is SI unit of potential difference?
3. Expand LED.
4. Electric current passes from terminal to terminal.
Answer any three of the following questions: $3 \ge 2 = 6$
5. Why is tungsten metal used in bulbs, but not in fuse wires?
6. Define electric potential and potential difference.
7. Distinguish between the resistivity and conductivity of a conductor.
8. How many electrons are passing per second in a circuit in which there is a current of 5A?
Answer any two of the following questions:- 2 x 4 = 8
10. a) State Ohm's law.
b) Calculate the resistance of a conductor through which a current of 2 A passes when the
potential difference between its ends is 30 V.
11. a) Define electric current.
b) A charge of 12 coulomb flows through a bulb in 5 seconds. What is the current through the
bulb?
12. a) State Joule's law of heating
b) An electric heater of resistance 5 ohms is connected to an electric source. If a current of 6 A
flows through the heater, then find the amount of heat produced in 5 minutes.
Answer any one of the following questions: $1 \ge 7$
13. a) What are the advantages of LED TV over the normal TV?
b) List the merits of LED bulb.
14. Explain about domestic electric circuits.

All the Best | One Two Katral maiyam