

HOLIDAYS ASSESSMENT ACADEMIC YEAR 2023-2024/1ST TERM

TITLE: Basics of ELECTRICITY

RTQF LEVEL: 3

TRADE: NIT

All questions are compulsory

Question 1: Why computer technicians need to be equipped with basics knowledge and skills in electrical installations?

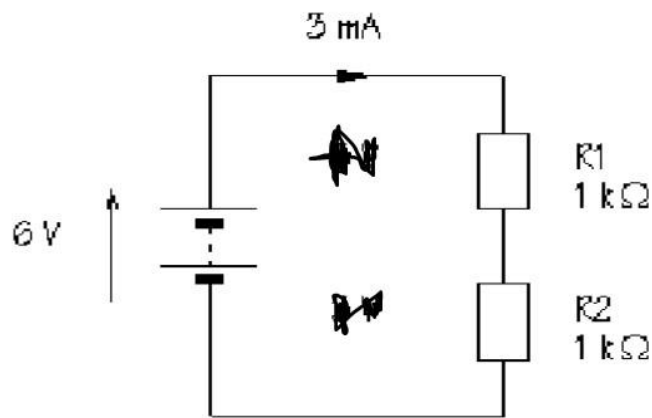
Question 2: After defining what are Electricity and current, State how electric current Produced and distributed to industry and domestic use.

Question 3: Differentiate a conductor, an insulator from Semiconductor (with one example for each).

Question 4: List and explain types of current with their symbols.

Question 5: Can a wire carry a current and still be neutral, have a total charge of zero? Explain your answer

Question 6: A 100 W electric light bulb is connected to a 250 V supply. Determine (a) the current flowing in the bulb, and (b) the resistance of the bulb.

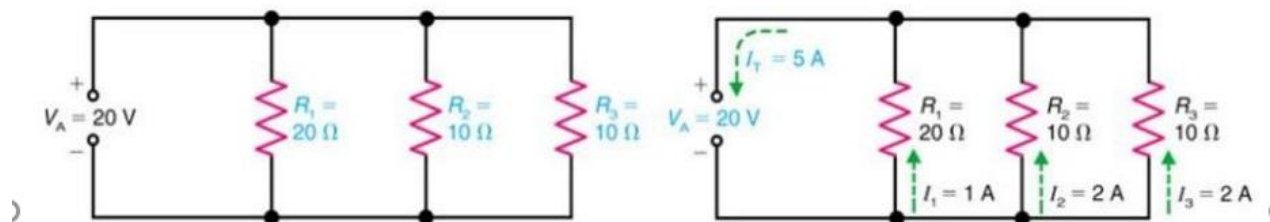
Question**7:**

Find the total resistance and voltage(V_2) at R_2

Question 8: A current of 5 A flows in the winding of an electric motor, the resistance of the winding being 100Ω . Determine (a) the p.d. across the winding, and (b) the power dissipated by the coil.

Question 9: Calculate the voltage required to produce 100 watts of power in a circuit with a resistance of 25 ohms.

Question 10: Find the total resistance in (a) and (b)
Determining the Equivalent Resistance



MERRY CHRISTMAS AND HAPPY NEW YEAR 2024