

2024

Skill Enhancement Course
BASIC SKILLS ON ELECTRONIC
EQUIPMENT

Paper Code : SEC0200903

Time : 1 Hour 30 Minutes

Full Marks : 30



(The figures in the margin indicate the full marks for the questions)

1. Answer the following as directed (*any five*): 1×5=5
- a) What is pitch?
 - b) Mention one use of Screw gauge.
 - c) Full form of PCB is (fill up the gap).
 - d) Write one use of a transistor.
 - e) Why capacitor is used in electronic circuit?
 - f) The frequency used in our domestic AC lines is ... Hz
(fill up the gap).
 - g) How does capacitive reactance vary with frequency?
2. Answer the following as directed (*any five*): 2×5=10
- a) Draw a circuit diagram to verify Ohms' law.
 - b) How does resistance of a semiconductor change with temperature?
 - c) Mention the parameters that can be measured with a multimeter.

- d) Name different types of transistor. Mention different parts of a transistor.
- e) Explain briefly the dry solder joint.
- f) Draw the series and parallel connections of resistor.
3. Answer the following as directed (*any three*) : 5×3=15
- a) State Kirchoff's first and second law and explain their physical significance.
- b) Design a circuit diagram for electrical switch board.
- c) What is rectifier? Draw the circuit diagram for half-wave and full-wave rectifier.
- d) Design a regulated power supply.
- e) What is least count? Write a short note on different uses of slide calliper, screw gauge and spherometer.



