

BSC1O24 - Open Elective - Electronics - Troubleshooting of Electronics Gadgets

P. Pages : 2

Time : Two Hours



GUG/S/25/15643

Max. Marks : 40

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and well-labelled diagram wherever necessary.

1. a) What is a resistor? Explain the function of the resistor. 4
b) Explain the type of capacitor. 4

OR

- c) What is a diode? Explain the function of the diode. 4
d) Explain the function of the transistor. 4
2. a) What is voltmeter? Explain the method to measure voltage. 4
b) What is multimeter? What is the use of multimeter? 4

OR

- c) Draw the diagram of the CRO Front Panel and explain the function of various knobs. 6
d) Explain the method to check the cable. 2
3. a) Explain the generation of AC supply. 4
b) Explain the method to check the DC power supply. 4

OR

- c) Explain the working of SMPS power supply. 4
d) Explain the method to check the battery. 4
4. a) Explain the various method to troubleshoot the output of audio amplifier. 4
b) Explain the method to check the microphone. 4

OR

- c) Explain the role of inverter. 4
d) Explain how LED bulb get repaired. 4

5. Attempt **any eight** of the followings:

1x8
=8

- a) What is LED?
- b) What is switches?
- c) State the type of cable.
- d) What is the use of ammeter?
- e) State the advantages of multimeter.
- f) What is ohmmeter?
- g) State the advantages of solar cell.
- h) Why does SMPS power supply is more preferred?
- i) How do you check loud speaker?
- j) Which type of power supply used in Desktop PC?
- k) What is the function of fan regulator?
- l) What is adaptor?
