

BSC1024 / STUG01ELE003 -Open Elective-II Electronics-Troubleshooting of Electronics Gadgets

P. Pages : 1

Time : Two Hours



GUG/W/24/15643(S)

Max. Marks : 40

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

1. a) Explain the type of resistor. State the use of resistor. **8**
OR
b) State the type of transformer and explain it with suitable diagram. **8**
2. a) Draw the diagram of Digital multimeter and explain the method to measure the DC & AC voltage. **8**
OR
b) Draw the diagrams of CRO front panel and explain the function of various knobs. **8**
3. a) Differentiate between AC and DC power supply. Explain the block diagram of DC Power Supply. **8**
OR
b) Explain the working of SMPS Power Supply with suitable block diagram. State its advantages. **8**
4. a) What is audio amplifier? Draw the block diagram of audio amplifier and explain it. **8**
OR
b) Differentiate between loud speaker and microphone. Explain the method to test the microphone and speaker. **8**
5. Attempt **any eight** of the followings: **8x1**
a) What is Capacitor?
b) What is diode?
c) State the type of Cable.
d) What is the use of ohmmeter?
e) State the advantages of multimeter.
f) What is the use of ammeter?
g) State the advantage of regulated power supply.
h) What is the use of battery?
i) State the advantage of solar cell.
j) Which type of power supply used in desktop pc?
k) State advantage of LED bulb.
l) What is the function of fan regulator?
