

B.A. / B.Com. (NEP) - Sem-I
**BSC1024 / STUG01ELE003 -Open Elective Electronics-Troubleshooting of
Electronics Gadgets**

P. Pages : 1

Time : Three Hours



GUG/W/24/15643

Max. Marks : 40

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

1. a) Explain any four types of the resistors. 8

OR

b) What is capacitor? Explain the various types of capacitors. 8
2. a) Explain the method to measure the voltage AC & DC Voltage using CRO. 8

OR

b) Draw the diagram of the 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 the regulated DC power supply. 8

OR

b) Explain the method to test the battery and solar cell. 8
4. a) Explain the method for troubleshooting of audio amplifier. 8

OR

b) Explain the method for checking the laptop charger. 8
5. Attempt **any eight** of the followings. 8
a) What is a resistor?
b) What is a switch?
c) What does LED stand for?
d) What is the use of a multimeter?
e) State the advantages of multimeter.
f) State the use of ohmmeter.
g) State the advantages of regulated power supply.
h) Draw the symbol of the battery.
i) State the advantages of the solar cell.
j) Which type of power supply is used in a Desktop PC?
k) State the advantage of LED bulbs.
l) What is inverter?
