

SARSUNA COLLEGE

B.Sc. (Semester I) PRACTICAL EXAMINATION 2020 (Under CBCS)

SUBJECT-ELTG

PAPER-CC-1-1-PR/GE-1-1-PR

FULL MARKS-30

Time: 1 hour 30 minutes

(Instruction to students: Send all the written answer sheets after scanning through a mobile scanner app and making it a single pdf file to the email id: eltgsc2020@gmail.com)

Answer *any two* questions

1. Explain the working principle of a forward biased p-n junction diode. Draw corresponding circuit diagram and its current-voltage (I-V) characteristic curve. How will you determine the dc resistance of the diode? (5+4+3+3)
2. Explain the working principle of a reverse biased zener diode. Draw corresponding circuit diagram and its I-V characteristic curve. How will you determine its dynamic resistance? (5+4+3+3)
3. Draw the circuit diagram of a bridge rectifier and a centre-tapped full wave rectifier and explain the workings respectively. (3+3+5+4)