

B. Sc. Semester V (Honours) Examination, 2020(CBCS)

Subject: Electronic Science

Paper: DSE-1 (Electronic Instrumentation)

Time: 2 Hours

Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

Answer any **eight** questions of the following (All questions carry equal marks): $5 \times 8 = 40$

1. Describe with neat diagram, the Wein's bridge method for measurement for unknown frequency?
2. Explain the operation of SMPS.
3. With a proper block diagram, describe the operation of CRT.
4. What are lissajous figures? Explain how phase and frequency can be measured using these figures.
5. What do you mean by active and passive transducer?
6. Write short note on optical transducer and its applications.
7. What is piezoelectric sensor? Discuss some application of piezoelectric sensors.
8. What is the difference between ammeter and voltmeter? Explain.
9. Draw a full wave rectifier circuit diagram and explain its operation?
10. Write short note on function generator.