

Total No. of Pages: 1

5307

Register Number

Name of the Candidate:

B.Sc. DEGREE EXAMINATION, May 2015

(ELECTRONIC SCIENCE)

(THIRD YEAR)

(PART-III)

750: ELECTRONIC INSTRUMENTATION AND INDUSTRIAL ELECTRONICS

Time: Three hours

Maximum: 100 marks

SECTION-A

(5×4=20)

Answer any FIVE questions

1. Explain the general characteristics of digital voltmeter.
2. Write notes on : i) Beam transit time
ii) Frequency limitations
3. What do you mean by waveform reconstruction ?
4. Explain the use of recorders.
5. Brief out the advantages of magnetic tape recorders.
6. Differentiate silicon unilateral switch and silicon bilateral switch.
7. What is a sequence timer? Explain.
8. Write notes on i) Spot Welding
ii) Projection welding

SECTION-B

(5×16=80)

Answer any FIVE questions

9. Describe the working of an electronic multimeter.
10. Explain the working of a differential voltmeter.
11. Discuss the measurement of frequency and phase angle using a CRO.
12. Write notes on:
i) Oscilloscope Probes.
ii) Transducers
13. Explain the functioning of a frequency divider generator.
14. Discuss any two application of SCR.
15. Brief out the merits of induction heating.
16. Explain the process of resistance welding.
