EC-303(N)

B. E. (Third Semester) EXAMINATION, June, 2010

(New Scheme) (Electronics & Communication Engg. Branch)

ELECTRONIC INSTRUMENTATION

Time: Three Hours Maximum Marks: 100 Minimum Pass Marks : 35

Note : Attempt one question from each Unit All questions carry equal marks.

Unit-I

1(a) Explain the working of chopper type D.C Voltmeter.

(b) Explain the working principle of Bolometer.

Or

2- (a) How does a peak responding voltmeter work ?

(b) Explain the principle of working of calorimeter.

Unit-II

3.(a) With the help of block diagam explain the working of CRO.

(b) How does a storage CRO work ? Discuss its ares of applications.

Or

4. (a) Explain the electrostatic focussing system of CRO.

(b) What is the difference between dual trace and dual beam CRO ?

Unit-III

6. (a) Discuss the working and limitations of Schering bridge.

(b) Explain the working of RVDT.

Or

6. (a) Explain the working of LVDT.

(b) Discuss the principle of working of Nuclear Radiation Detector.

Unit-IV

7 Explain the following :

(a) Harmonic Distortion Analyzer (b) Beat Frequency Oscillator

Or

8. Explain the following :

(a) Network Analyzer

(b) Pulse and square wave generator

Unit-V

9. (a) Explain binary ladder type DAC.

(b) Explain the successive approximation type ADC.

Or

10. (a) Explain weighted converter using op-amp. And transistor.

(b) Discuss the working of Dual Slope type ADC. Rgpvonline.com