

Code: 9A04405**B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017****ELECTRONIC MEASUREMENTS**

(Common to EIE & E.Con.E)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain the different method of measurements.
(b) Give the voltage standards, resistance standards, current standards and capacitance standards.
- 2 (a) Explain how the calibration of voltmeter is done.
(b) Explain about direct calibration and indirect calibration.
- 3 (a) Explain the features of FET volt meters with a circuit diagram.
(b) Explain the working of successive approximation type DVM.
- 4 (a) Explain about the measurement of inductance using Maxwell's bridge.
(b) Explain the applications of Q-meters.
- 5 (a) Explain the working of wave meters.
(b) Describe the working of super heterodyne wave analyzer.
- 6 (a) Explain the electrostatic focusing concept using in a CRO.
(b) Derive the expression for deflection sensitivity.
- 7 (a) Explain the various probes used in CRO's.
(b) With a neat block diagram, explain the functioning of sampling oscilloscope.
- 8 (a) Explain the principle of working of spectrum analyzer.
(b) Explain the working of digital storage oscilloscope with a block diagram.
