F.Y.B.Sc.(Part-I)(With Credits)-Regular-Semester 2012 Sem II

2SELE-T2 - Electronics-II (Measuring Devices)

GUG/S/17/5574 P. Pages: 1 Time: Three Hours Max. Marks: 50 All questions are compulsory and carry equal marks. Notes: 1. Draw labelled diagrams wherever necessary. 2. 3. Use of log table/ calculator is allowed. Either 1. Explain the construction and working of PMMC with suitable diagram. 10 a) Explain the use of PMMC as a DC ammeter. OR What is sensitivity of voltmeter? Explain the loading effect of voltmeter with suitable 10 b) example. How can it be avoid? 2. **Either** Draw the functional block diagram of digital multimeter and explain the function of 10 a) each block. State its advantages. OR Obtain the expression for general condition of balanced AC bridge. Explain the 10 b) Schering's bridge and obtain balance condition for it. 3. **Either** Draw the block diagram of vertical deflecting system and explain each block. 10 a) Explain the need of delay line. OR Draw the CRT diagram and explain the function of each part of CRT. **10** b) 4. a) Explain the measurement of AC/DC voltage, frequency and phase by CRO. **10** OR Explain the dual trace CRO with suitable block diagram. Compare the dual trace and 10 b) single trace CRO. 5. a) Explain the concept of multimeter. $2^{1/2}x4$ Draw the diagram of EVM using FET b) =10 Draw block diagram of CRO. c) Explain passive CRO probe. d)
