

S.B. Roll No.....

ELECTRONICS INSTRUMENTS AND MEASUREMENTS
3rd Exam/ECE/ETV/ECE-II/0610/May'18

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

10x1.5=15

- a. Creeping error occurs in Meter.
- b. Q meter is a ratio of To
- c. Sweep generator is used to generate waveforms.
- d. Spring system in instruments is used to produce Torque.
- e. Basic principle of energy meter is
- f. Which instrument is most accurate (PMMC/Moving Iron /Electro-dynamometer)
- g. Unit of deflection sensitivity in CRO is
- h. Ammeter is connected in with the circuit.
- i. In wattmeter coil is fixed.
- j. PMMC means

SECTION-B

Q2. Attempt any five Questions.

5x6=30

- i. Explain the basic principle of energy meter.
- ii. Write the specifications of milli voltmeter.
- iii. Define precision, accuracy and resolution.
- iv. What is PMMC meter? Explain it.
- v. What is loading effects in instruments?
- vi. What is a wave analyzer? Discuss basic wave analyzer.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What is digital multimeter? List its advantages.
- b. Draw the block diagram of CRO and give its applications.
- c. Draw the diagram of digital LCR bridge and explain it
- d. What is Q factor? How it is measured.