

S.B.Roll No.....

**Electronics Instruments And Measurements**

**3<sup>rd</sup> Exam/ECE/ETV/EMP/ECE(II)0610/May,2015**

**Duration: 3 Hrs**

**M. Marks:75**

**SECTION-A**

**Q1. Fill in the blanks:**

**(15x1=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:**

**(6x5=30)**

- (a) Explain the basic principle of energy meter.
- (b) Write the specifications of milli voltmeter.
- (c) Define precision, accuracy and resolution.
- (d) What is PMMC meter . Explain it.
- (e) What is loading effects in instruments
- (f) Draw the block diagram of pulse generator.

**SECTION-C**

**(3x10=30)**

**Note: Attempt any three questions:**

- Q3. What is digital multimeter? list its advantages.
- Q4. Draw the block diagram of CRO and give its applications.
- Q5 Draw the diagram of digital LCR bridge and explain it
- Q5 What is Q factor? How it is measured.