

S.B. Roll No.....

ELECTRICAL MEASUREMENTS INSTRUMENTS AND INSTRUMENTATION

4th/2525/Elect/Nov'15

SECTION-A

Duration: 3Hrs

M.Marks=75

Q.1.Fill in the blanks:

1.5x10=15

- I. Wattmeter is an instrument, which measures _____
- II. Moving iron instrument have _____ scale.
- III. Meggar is used for measurement of _____
- IV. Multimeter can measure _____
- V. PMMC instrument can measure _____ quantity.
- VI. Which type of instrument can measure ac and dc both _____
- VII. Thermocouples are used to measure _____
- VIII. The resistance of earth electrode should be _____
- IX. The power consumption in moving iron instrument is quite _____
- X. The range of ammeter can be extended by using _____

SECTION-B

Q2.Attempt any FIVE questions:

6x5=30

- I. Explain the working of capacitive transducer.
- II. Explain construction and working principle of CT.
- III. What are advantages and disadvantages of moving iron instruments over moving coil instruments?
- IV. Draw block diagram of CRO and list functions of its various blocks.
- V. Write a note on resistance temperature detector.
- VI. Explain working and construction of maximum demand indicator.

SECTION-C

Attempt any THREE questions:

3x10=30

- Q3.** Discuss construction and working of moving coil instruments.
- Q4.** Explain the working of LCR meters and their applications.
- Q5.** Write a short note on i) Thermocouple ii) Multimeter
- Q6.** Discuss construction and working principle of LVDT