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221021

**2nd Sem / ECE, ECE ( For Speech and Hearing Impaired)**  
**Subject : Electronic Instruments and Measurement**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 \_\_\_\_\_ is the ratio of change in magnitude of output signal to the change in input signal.

- a) Resolution
- b) Accuracy
- c) Sensitivity
- d) Quality

Q.2 Full form of DSO is

- a) Direct Signal Operator
- b) Digital System Operator
- c) Digital Signal Oscillator
- d) Digital Storage Oscilloscope

Q.3 Logic Pulser is used to insert

- a) Logic pulse in analog circuit
- b) Logic pulse in digital circuit
- c) Logic pulse in analog circuit and digital circuit
- d) All the above

Q.4 In the simplest form, an AC bridge consists of \_\_\_\_\_

- a) arms, source and a detector
- b) arms and source
- c) source and detector
- d) arms and detector

Q.5 Multimeter is used to measure \_\_\_\_\_ quantity.

- a) Single
- b) Double
- c) Multiple
- d) Triple

Q.6 Measurement methods are of \_\_\_\_\_ types.

- a) 4
- b) 5
- c) 2
- d) 1

## **SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 What is measurement.
- Q.8 Write full form of PMMC.
- Q.9 Name the deflection plate used in CRT.
- Q.10 Which bridge is used for the measurement of DC only.
- Q.11 What is logic probe.
- Q.12 Define Accuracy .

## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 Write any four difference between Accuracy and Precision.
- Q.14 Explain working principle of Pulse Generator.
- Q.15 Explain attraction type moving iron instrument.
- Q.16 Explain CRT with diagram.
- Q.17 Explain Wheat stone Bridge.

Q.18 Write four advantages of Digital instrument over Analog instrument.

- Q.19 What is standard and explain its different types.
- Q.20 Explain any four front panel controls of CRO.
- Q.21 Draw and explain the block diagram of Q meter.
- Q.22 Explain limiting error with example.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

- Q.23 Draw and explain block diagram of CRO in detail.
- Q.24 Explain construction and working principle of Permanent Magnet Moving Coil ( PMMC) instrument.
- Q.25 Explain working principle of Q meter with diagram.