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Roll No.

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) Tripple

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. (6x1=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. (8x4=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. (2x8=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.