

- Q.26 Write short note on DSO.
- Q.27 Explain how phase is measured by CRO
- Q.28 Explain block diagram of AC millivoltmeter?
- Q.29 Write any four limitations of Anderson Bridge.
- Q.30 Write four advantage of DC ammeter.
- Q.31 Explain any two merits and demerits of VTVM.
- Q.32 Write two advantages and disadvantages of max well inductance bridge.
- Q.33 Differentiate between direct and indirect methods of measurement?
- Q.34 Explain dynamic characteristics of instruments?
- Q.35 Explain Distortion factor meter.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain with the block diagram specification of RF generators.
- Q.37 Explain working of Q-meter with block diagram.
- Q.38 Explain with the help of phaser diagram Schering's Bridge?

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5th Sem / GE

Subject:- Electronic Instruments and Measurement

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The errors occur due to the human mistake in measurement are:
- a) Random b) Gross
- c) Systematic d) Environmental
- Q.2 The internal resistance of an ammeter should be
- a) Very small b) Infinite
- c) Medium d) None
- Q.3 DSO can be used to display:
- a) X-input b) Y-input
- c) Both (a) and (b) d) None
- Q.4 The internal resistance of an voltmeter should be:
- a) Very small b) Medium
- c) High d) Infinite

- Q.5 The Q-meter is based on the principle of:
- Self-inductance
 - Mutual-inductance
 - Series inductance
 - None
- Q.6 Systematic error may arise due to different reasons:
- Instrument
 - Environment error
 - Both (a) and (b)
 - None
- Q.7 Accuracy is defined as:
- deviation from the value
 - closeness to true value
 - measure of responsibility
 - None
- Q.8 Ammeter is always connected in _____ in circuit.
- Series
 - Parallel
 - None
 - Both (a) and (b)
- Q.9 The principle of operation of Q-meter Is based on:
- Self inductance
 - Parallel resonance
 - Mutual inductance
 - Series resonance
- Q.10 The electron lens of a CRO consists of:
- Focusing electrode
 - Grid and cathode
 - Cathode and filament
 - None

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Accuracy.
- Q.12 Define the term Measurement.
- Q.13 Define the term Aquadag.
- Q.14 Expand CRT.
- Q.15 Define Electro-magnetic focusing.
- Q.16 Write any two advantages of Wheat Stone bridge.
- Q.17 CRO can be to measure voltage. (True/False)
- Q.18 AC bridge are generally used to measure _____ (Resistance Inductance)
- Q.19 Gross error occurs due to human mistakes. (True /False)
- Q.20 What is AC millivoltmeter.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What are sources of error?
- Q.22 What is the use of distortion factor meter?
- Q.23 Write any two limitations of digital multimeter.
- Q.24 What are different methods of measurement?
- Q.25 Write a short note on “moving iron type instruments”

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