

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

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”