

- Q.30 Draw and explain multimeter with their application
- Q.31 Explain the block diagram of CRO. Discuss their advantages and disadvantages.
- Q.32 Explain thermocouple type meters.
- Q.33 Discuss block diagram of function generator.
- Q.34 Discuss PMCC meter with diagram.
- Q.35 Describe Maxwell bridge.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain working principle, construction and applications Digital Frequency Meter.
- Q.37 Explain construction & working principles of moving iron meter.
- Q.38 Draw & explain block diagram of D.S.O.

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Roll No.

3rd Sem / IC

Subject:- Test and Measuring Instruments

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Wheatstone bridge is used for measurement of _____
- a) Voltage b) Resistance
- c) Current d) Inductance
- Q.2 Stroboscope is used to measure _____
- a) energy b) power
- c) frequency d) mass
- Q.3 Unit of power is _____
- a) Joule b) Watt
- c) Volt d) Farad
- Q.4 Function Generator is used in _____ voltage.
- a) AC b) DC
- c) AC & DC d) none of these
- Q.5 _____ is a Null type instrument.
- a) PMMC b) D.C Potentiometer
- c) Both (a) & (b) d) None of these

- Q.6 In a Q-meter, the value of shunt resistance connected across the oscillator is typically of the order of ____
- a) W b) mW
c) mW d) kW
- Q.7 In electro-dynamometer wattmeter fixed coil is also called ____.
- a) Current Coil b) Pressure Coil
c) Both a & b d) None of these
- Q.8 ____ is the main part of CRT
- a) Electron gun assembly
b) Glass Envelope
c) Both (a) & (b)
d) None of these
- Q.9 Wagner earth devices are used for ____
- a) A.C. bridge b) D.C. bridge
c) Both (a) & (b) d) None of these
- Q.10 A transistor has ____.
- a) One PN Junction b) Two PN Junction
c) Three PN Junction d) None of these

SECTION-B

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

- Q.11 Dimension of length is ____
- Q.12 Ohm meters are used for measurement of resistance. (True/False)

- Q.13 ____ is used for power measurement.
- Q.14 Transistor is tested by ____.
- Q.15 Digital frequency meter measures ____
- Q.16 Define Energy.
- Q.17 Graticule is a grid of line that serves as a scale for time & amplitude measurement. (True/False)
- Q.18 What is the function of Stroboscopes?
- Q.19 Voltmeter is an example of secondary instruments. (True/False)
- Q.20 Name any one method of resistance measurement.

SECTION-C

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

- Q.21 Describe megger for measurement of high resistance.
- Q.22 Write a short note on classification of instrumentation system.
- Q.23 Discuss stroboscope frequency measurement.
- Q.24 Describe power measurement by 2-watt meter method.
- Q.25 Explain single phase energy meter.
- Q.26 What is Q-meter?
- Q.27 Write a short note on importance of measurement.
- Q.28 Write a short note on digital frequency meter.
- Q.29 Draw diagram of wagner earth devices.