

- Q.33 Explain Rectifier type voltmeter.
Q.34 Explain 3-wattmeter method for power measurement.
Q.35 Discuss about digital frequency meter.

SECTION-D

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

- Q.36 Along with labelled diagram explain the construction and working principle of CRT.
Q.37 Explain the working principle, construction and applications of function generator.
Q.38 Discuss the construction & working of principle of megger.

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3rd Sem / Instrumentation & control

Subject:- Test & measuring instruments

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Unit of energy is _____.
a) Watt b) Volt
c) Joule d) Henry
- Q.2 Megger is used for measurement of _____.
a) Resistance b) Voltage
c) Inductance d) Current
- Q.3 Which Instrument is the cheapest disregarding the accuracy
a) PMMC b) Moving iron
c) Rectifier d) Electrodynamometer
- Q.4 In Electrodynamometer wattmeter moving coil is also called _____.
a) Current coil b) Pressure coil
c) Both A&B d) None of these
- Q.5 Wheatstone Bridge is used to measure _____.
a) resistance b) capacitance
c) current d) voltage

Q.6 Unit of capacitance is _____
a) metre b) farad
c) ohm d) second

Q.7 Maxwell Bridge is used for measurement of _____
a) Resistance b) capacitance
c) Inductance d) All of these

Q.8 Transistor tester is used for testing of _____
a) resistance b) capacitance
c) transistor d) inductance

Q.9 Unit of time is _____
a) pascal b) kelvin
c) meter d) second

Q.10 Application of instrumentation system is _____
a) medical instrument b) pressure guage
c) control system d) all of these

SECTION-B

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

Q.11 What is power.

Q.12 What is the application of energy meter.

Q.13 What is frequency.

Q.14 What is Q meter.

Q.15 Write one application of L C R Bridge.

Q.16 What is energy.

Q.17 Expand DSO.

Q.18 Hay's bridge is used for measurement of inductance.
True/false.

Q.19 Tangent galvanometer is an example of absolute instrument. True/false

Q.20 Electronic instrument have higher sensitivity & lower weight. True/false.

SECTION-C

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

Q.21 Write the working of Q - meter.

Q.22 Write about classification of instrument.

Q.23 Explain Hey's Bridge.

Q.24 Draw Diagram of wagner earth devices.

Q.25 Draw and Explain block diagram of D. S.O.

Q.26 Explain the working of stroboscope.

Q.27 Give the working and applications of moving iron type instrument.

Q.28 Explain Transistor testor.

Q.29 What is the working principle of LCR bridge?

Q.30 Explain Multimeter and how the voltage and current is measured using multimeter.

Q.31 Discuss Wheatstone bridge circuit.

Q.32 What is the need & importance of measurement?