

- Q.25 Explain digital frequency meters.
 Q.26 Discuss LCR bridge with diagram.
 Q.27 Discuss construction & working of CRT.
 Q.28 What is need & importance of measurement.
 Q.29 Explain potentiometer method for m's of resistance.
 Q.30 Explain measurement of inductance.
 Q.31 What is Multimeter, how A.C. and D.C. voltage measurement is performed by it.
 Q.32 Discuss construction & application of energy meter.
 Q.33 What is transistor tester.
 Q.34 Explain measurement of frequency & time using C.R.O.
 Q.35 Explain Wagner earth devices.

SECTION-D

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

- Q.36 Explain construction & working principle of PMMC.
 Q.37 Draw & explain block diagram of C.R.O.
 Q.38 Describe measurement of capacitance.

No. of Printed Pages : 4 181533/121533/031533
 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 Unit of Capacitor is _____.
 a) Volt b) Tesla
 c) Farad d) None of these
 Q.2 _____ is a deflection type instrument.
 a) D.C. Potentiometer b) PMMC
 c) Both (a) and (b) d) None of these
 Q.3 Which method is used for medium Resistance measurement.
 a) Wheatstone Bridge b) Potentiometer method
 c) Both (a) and (b) d) None of these
 Q.4 Wagner earth devices are not used for _____.
 a) A.C. Bridge b) D.C. Bridge
 c) Both (a) and (b) d) None of these
 Q.5 Multimeter can measure _____.

- a) A.C. Voltage b) D.C. Voltage
 c) Both (a) and (b) d) None of these
- Q6** In electrodynamometer which coil carry the current of the circuit.
 a) Moving Coil b) Fixed Coil
 c) Both (a) and (b) d) None of these
- Q7** The Q meter most widely used in the laboratory for testing of _____
 a) RFC b) Inductors
 c) Capacitors d) All of these
- Q8** In CRO the signal to be examined is usually applied to the _____.
 a) vertical deflection plates
 b) Horizontal deflection plates
 c) Both (a) and (b)
 d) None of these
- Q.9** _____ is Bridge is used for m's of inductance.
 a) Hay's Bridge b) Wheatstone Bridge
 c) Both (a) and (b) d) None of these
- Q.10** CRO is used for _____.
 a) Display
 b) Measurement
 c) Analysing of wave forms
 d) All of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Absolute instruments are time consuming for routine work. (True/False)
- Q.12 Coulomb is unit of charge. (True/False)
- Q.13 _____ is used for small value resistance measurement.
- Q.14 Expand PMMC.
- Q.15 2 Wattmeter power measurement & method uses 2 wattmeter. (True/False)
- Q.16 Stroboscope is used for measurement of _____.
- Q.17 Function generator generates _____.
- Q.18 Intensity control in CRO controls _____ of the beam.
- Q.19 Rectified type meters utilize _____ along with PMMC.
- Q.20 _____ is used for energy measurement.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write a short note on classification of instruments.
- Q.22 Discuss meggers for measurement of resistance.
- Q.23 Explain thermocouple type meter.
- Q.24 Describe electrodynamometer type watt meter.