

- 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 CRO.
- 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.

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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 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 electro-dynamometer which coil carry the current of the circuit.  
a) Moving Coil                      b) Fixed Coil  
c) Both (a) and (b)                  d) None of these
- Q.7 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

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## 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 electro-dynamometer type watt meter.

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