

No. of Printed Pages : 4

221533

Roll No.

**3rd Sem / Branch : Instrumentation & Control,
Medical Electronics
Sub.: Measurement and Instrumentation**

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Hay bridge is used for measuring
a) Inductance b) Capacitance
c) Resistance d) None of the above
- Q.2 Multimeter is used to measure
a) AC Voltage b) DC Voltage
c) Resistance d) All of the above
- Q.3 Resistance can be measured with help of
a) Wattmeter
b) Voltmeter
c) Ammeter
d) Ohmmeter and Resistance bridge
- Q.4 CRO can be used for measuring
a) AC Voltage only b) DC Voltage only
c) Frequency d) Any of above

- Q.5 A potentiometer may be used for
a) Measurement of Resistance
b) Measurement of current
c) Calibration of ammeter and voltmeter
d) All of the above
- Q.6 The internal resistance of an ammeter should be
a) Very Small b) Medium
c) High d) Infinity

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is DSO?
- Q.8 Define single phase system.
- Q.9 Ammetre is used to measure _____.
- Q.10 Write any one name of measurement of capacitance.
- Q.11 What is resistance?
- Q.12 Write the full form of PMMC.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What is the major application of CRO.

- Q.14 Explain any one method of resistance measurement.
- Q.15 How does electrostatic type instrument work.
- Q.16 List atleast four difference between single phase and three phase system.
- Q.17 What are the various forcing technique.
- Q.18 Write a short note on 3-phase system.
- Q.19 Explain potentiometer method for resistance measurement.
- Q.20 Write a short note on delay sweep.
- Q.21 What is energy meter?
- Q.22 Explain time base operation in CRO.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain wheatstone bridge in detail
- Q.24 Explain working principle of digital frequency meter.
- Q.25 Write and explain working principle of moving iron instrument.