

- Q.21 Write down specification of RLC Bridge. (CO4)
Q.22 Write a short note on Logic probe. (CO5)

SECTION-D

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

- Q.23 Discuss the use of C.R.O for measurement of voltage, frequency & time period. (CO3)
Q.24 Explain RLC Bridge or Impedance Bridge with diagram. (CO4)
Q.25 Explain the working of integrating type of DVM. (CO5)

No. of Printed Pages : 4
Roll No.

222851/212851

5th Sem / Automation & Robotics

Subject : Electronic Instrumentation and Measurement

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 The difference between the indicated value and true value of quantity is known as : (CO1)
a) Absolute Error b) Dynamic Error
c) Systemic Error d) None of the above
Q.2 Multimeter can be used to measure : (CO1)
a) DC Voltage b) AC Voltage
c) Resistance d) All of the above
Q.3 The brightness of spot on a CRO is controlled by: (CO2)
a) Anode Voltage
b) Heater Filament Voltage
c) Grid Voltage
d) Shield and grid

Q.4 Which type of signal is NOT commonly generated by a signal generator? (CO3)

- a) Sine wave b) Square wave
- c) Triangle wave d) Direct current (DC)

Q.5 In Maxwell's Induction Bridge, the unknown inductance is compared with: (CO4)

- a) A standard resistance
- b) A standard capacitance
- c) A standard inductance
- d) A standard resistor and capacitor

Q.6 Which of the following tools is typically used to observe the logic levels (high or low) at a specific point in a digital circuit?

- a) Oscilloscope b) Logic probe
- c) Function generator d) Logic pulser

SECTION-B

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

Q.7 Define Accuracy. (CO1)

Q.8 Define Damping Torque. (CO1)

Q.9 A dual beam CRO has _____ electron gun (CO2)

Q.10 Define fluorescence. (CO3)

Q.11 Name the bridge used for measurement of mutual inductance. (CO4)

Q.12 Define a logic analyzer. (CO5)

SECTION-C

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

Q.13 Differentiate between direct and indirect methods of measurement. (CO1)

Q.14 How the range of voltmeter can be extended? (CO1)

Q.15 What are major components of CRT? (CO2)

Q.16 Write down a short note on blanking. (CO2)

Q.17 What are the various parts of signal generator? (CO3)

Q.18 Write a short note on Wheat Stone Bridge. (CO4)

Q.19 Give the disadvantages of Maxwell Induction bridge. (CO4)

Q.20 What is digital Voltmeter and explain its's types. (CO5)