No. of Printed Pages : 4
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212851

5th Sem / Branch : Automation & Robotics
Sub.: Electronic Instrumentation and Measurements

Time : 3Hrs. M.M. : 60

SECTION-A

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

Q.1 What is smallest change in applied input that will indicate a detectable change in output of an instrument?

a) Accuracy b) Precision

c) Sensitivity d) Resolution

Q.2 A moving Iron can be used for

a) DC only b) AC only

c) Both (a) & (b) d) None

Q.3 Wheat stone Bridge may not give accurate reading if _____.

a) It is not balanced

b) It is balanced

c) Voltaged repis maximum

d) Excessive currant flow

Q.4 The Principal of Q meter is based on

a) Parallel Reromance

b) Series Resemance

c) Both (a) & (b)

d) None

Q.5 Inductance is measured by

a) wheat store bridge b) Schering bridge

c) De sailty bride d) Max will bride

Q.6 A simple instrument used to detect logic state of a note in a digital circuit is knownas

a) Logic pulser b) Logic analyser, CRO

c) Logic probe d) None

SECTION-B

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

Q.7 Volt meter is always connected in _____.

Q.8 Write treefull form of C.R.T._____.

Q.9 Scale of Moving instruments is _____.

Q.10 _____ is always connected in serissina circuit .

Q.11 Define Quality factor_____.

Q.12 _____ bridge is used to measure resistance.

SECTION-C

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

Q.13 Discuss the type of instrument in brief.

Q.14 Write down applications of multi meter.

Q.15 Draw the Block diagram of CRT.

Q.16 Write down applications of CRO.

Q.17 Compare Analog and digital instruments.

Q.18 Explain working principle of logic pride.

Q.19 Write a short note on spectrum analyses.

Q.20 What are specifications of RLC bridge.

Q.21 Differentiate between accuracy and prevision.

Q.22 Describe different types of erroorsin measurement

SECTION-D

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

Q.23 Explain working of CRO with help of a block digram in details_____.

Q.24 Explain working principle of any type of digital VOG meter.

Q.25 Explain the block diagram specifications of low frequency and RF generation in brief.