

Q.18 What are plotters? Give its applications.

SECTION-D

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Explain with block diagram, how a Wheatstone bridge is used for measurement of resistance. Derive an expression for balanced condition of wheatstone bridge

Q.20 Explain with diagram, the construction and working of CRT

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Roll No.

2nd Sem / DVOC (Medical Image Technology)
Subject : Electronics Measurement & Instrumentation-II

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions.
(10x1=10)

Q.1 What is working principle of Q-meter?

- a) Self-inductance b) Piezoelectric effect
- c) Mutual inductance d) Series inductance

Q.2 Which of the following is the not correct statement about Dual beam Oscilloscope?

- a) Two seperate electron guns
- b) Two set of vertical deflection plates
- c) Two sets of horizontal deflection plates
- d) All of the above

Q.3 What is the period, if the frequency is 1 MHz?

- a) 0.001s b) 0.0001s
- c) 0.00001s d) 0.000001s

Q.4 The focusing anode in CRT is located:

- a) Between pre-accelerating & accelerating anode
- b) After accelerating anode
- c) Before pre-accelerating anode
- d) Before accelerating anode

Q.5 Wheatstone bridge is based on the principle of

- a) Full deflection
- b) Null deflection
- c) Partial deflection
- d) Mid range deflection

Section-B

Note: Objective type questions. All questions are compulsory.

(5x1=05)

Q.6 What is the full form of DSO?

(2)

188561

Q.7 Which instrument is used for finding the balanced condition in De-sauty's bridge?

Q.8 Define the term Q-meter

Q.9 Name any two DC bridges.

Q.10 What is the function of blanking circuit?

SECTION-C

Note: Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

Q.11 Distinguish between AC bridge & DC bridge

Q.12 Draw the diagram and explain the function of blanking circuit

Q.13 How we can measure the frequency using CRO?

Q.14 Explain the need synchronization in CRO

Q.15 Give the applications of CRO

Q.16 Write a short note on functioning of Q-meter.

Q.17 Explain briefly how inductance is measured by using Maxwell's bridge

(3)

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