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188561

DVOC (Medical Imaging Technology)

Subject :Electronic Measurement & Instrumentation - II

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Multiple Choice questions. All questions are compulsory. (5x1=5)

Q.1 The balance condition of wheatstone bridge depends upon the_____

a) ratio arms R1 & R2

b) ratio of arms R3 & R4

c) emf source of null detector

d) current source of power source

Q.2 In dual beam oscilloscope, which of the following plates is used to deflect the beam?

a) Vertical plates b) Horizontal plates

c) both (a) and (b) d) none of the above

SECTION-D

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

Q.19 Draw the general form of an AC bridge and derive the general equation for its balanced equation.

Q.20 Give comparison in detail between Dual beam and Dual trace CRO.

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

a) 10 MHz b) 100 MHz

c) 1000 MHz d) 10000

Q.4 A galvanometer is used as a _____

a) current source b) voltage source

c) null detector d) input impedance

Q.5 Inductance can be measure by using _____

a) Maxwell's bridge b) Kelvin's bridge

c) De-Sauty's bridge d) Wein's bridge

SECTION-B

Note: Objective type questions. All questions are compulsory. (5x1=5)

Q.6 What is the full form of CRT?

Q.7 Which instrument is used for finding the balanced condition in Wheatstone bridge?

Q.8 Define the term of Q-meter.

Q.9 Name any two AC bridges.

Q.10 What is the function of Delay line?

SECTION-C

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

Q.11 What is bridge circuit? What are different types of bridges?

Q.12 What is the role of various deflecting plates inside the CRT?

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

Q.14 Enlist the basic controls of CRO and explain them briefly.

Q.15 Explain with diagram , the working of dual trace CRO.

Q.16 Write a short note on CRO probes.

Q.17 Enlist the applications of DSO.

Q.18 Write a short note on X-Y recorders.