

C.U.SHAH UNIVERSITY

Winter Examination-2019

Subject Name: Electrical & Electronics Measurement

Subject Code: 4TE04EEM1

Branch: B.Tech (Electrical)

Semester: 4

Date: 19/09/2019

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions:

(14)

- a) Define the term: Repeatability
- b) Define the term: static error
- c) Define the term: Sensitivity
- d) Frequency can be measured by using
 - (a) Maxwell's bridge
 - (b) Schering bridge
 - (c) Heaviside Campbell bridge
 - (d) Wien's bridge.
- e) Wattmeter has two coils namely _____
 - (a) voltage and pressure coil
 - (b) voltage and resistance coil
 - (c) voltage and current coil
 - (d) pressure and resistance coil
- f) Earth wire or ground wire is made of.....
 - (a) copper
 - (b) aluminum
 - (c) iron
 - (d) galvanized steel
- g) The use of _____ instruments is merely confined within laboratories as standardizing instruments.
 - (a) indicating
 - (b) absolute
 - (c) recording
 - (d) integrating
- h) The shunt resistance and the meter coil in a ameter are connected in
 - (a) series
 - (b) parallel
 - (c) series-parallel
 - (d) none of above
- i) Standard resistor is made from
 - (a) maganin
 - (b) platinum
 - (c) silver
 - (d) copper
- j) The operating voltage of a meggar is about
 - (a) 6 V
 - (b) 12 V
 - (c) 40 V
 - (d) 100 V
- k) The pointer of an indicating instrument should be
 - (a) very light
 - (b) very heavy
 - (c) either A) or B)
 - (d) neither A) or B)
- l) A moving iron instrument can be used for
 - (a) D.C. only
 - (b) A.C. only
 - (c) Both A.C. & D.C.
 - (d) None of above
- m) Meggar is used to measure _____ (Fill the blank).



