Extra 04/08

V.P & R.P.T.P SCIENCE COLLEGE
V.V.NAGAR
Internal test

Date: 01/10/2013 Subject: Instrumentation (V) Time: 11:00 to12:00Noon
Subject code: US01CINV01 Total Marks: 30

Q-1 Choose correct answer from given: [6]

(1) Which type of reactance used to pass the DC signal and block the AC signal?
(A) Inductive
(B) Resistive
(C) capacitive
(D) none of above

(2) The value of resistor is _____, having color band sequence is Gray, Blue, Brown and silver.
(A) 860Ω +/- 10%
(B) $8.6X10^5\Omega$ +/- 10%
(C) 8.6Ω +/- 10%
(D) none of above

(3) _____ is used to converts one form of energy in to another form.
(A) Transducer
(B) Transmitter
(C) both (A) and (B)
(D) none of above

(4) Thermistor is _____ coefficient of temperature.
(A) negative
(B) positive
(C) both (A) and (B)
(D) none of above

(5) _____ Damping is a considered as best damping.
(A) Over
(B) Under
(C) Critical
(D)none of above

(6) Air core coil has _____ flux density.
(A) High
(B) Low
(C) zero
(D) none of these.

Q-2 Short answer type questions. (attempt any three) [6]

(1) Briefly explain LDR.
(2) Briefly explain Mutual inductance
(3) Define Capacitive reactance.
(4) Which factors depends on motion of the moving coil in a magnetic field?
(5) Define active and passive components.
(6) Why the PMMC pointer reads low by 0.2 % per centigrade rise in temperature?

Q-3 Explain the 'Wheatstone Bridge', and find the equation of unknown resistor. [6]

OR

Q-3 Explain Metal film resistor and Wire wound resistor with necessary diagram. [6]

Q-4 Explain Ceramic and Electrolytic capacitor. [6]

OR

Q-4 Enlist the different types of Inductors and explain it. [6]

Q-5 Explain construction and working of Pivoted type galvanometer. [6]

OR

Q-5 Explain Deflation torque and Dynamic behavior of galvanometer. [6]

*** ALL THE BEST ***