

Extra 08

V.P & R.P.T.P SCIENCE COLLEGE

V.V.NAGAR

Internal test

Date: 01/10/2013

Subject: Instrumentation (V)

Time: 11:00 to 12:00 Noon

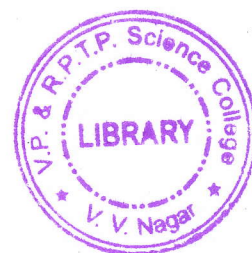
Subject code: US01CINV01

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 (C) capacitive
(B) Resistive (D) none of above
- (2) The value of resistor is _____, having color band sequence is Gray, Blue, Brown and silver.
(A) $860\Omega \pm 10\%$ (C) $8.6\Omega \pm 10\%$
(B) $8.6 \times 10^5\Omega \pm 10\%$ (D) none of above
- (3) _____ is used to convert one form of energy into another form.
(A) Transducer (C) both (A) and (B)
(B) Transmitter (D) none of above
- (4) Thermistor is _____ coefficient of temperature.
(A) negative (C) both (A) and (B)
(B) positive (D) none of above
- (5) _____ Damping is considered as best damping.
(A) Over (C) Critical
(B) Under (D) none of above
- (6) Air core coil has _____ flux density.
(A) High (C) zero
(B) Low (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 depend 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 Deflection torque and Dynamic behavior of galvanometer.

[6]

*** ALL THE BEST ***