

V.P & R.P.T.P SCIENCE COLLEGE F.Y.BSc. (Ist Sem.) Internal test Subject - Basic electronics instrumentation

| Date: 03/10/2015 | Course: Instrumentation (V) | Time: 1:30 pm to 2:30pm |
|---------------------|-----------------------------|-------------------------|
| Subject code: US010 | CINV01 | Total Marks: 25 |
| | | |

| Q-1 | Choose correct answer from given: | [3] |
|------------------------------|--|-----|
| (1) | A resistor has color band sequence is Gray, Blue, Gold and Gold, is the resistance value of resistor.is the (A) 86Ω +/- 5 %(A) 86Ω +/- 5 %(C) 8.7Ω +/- 5 %(B) 8.6Ω +/- 5 %(D) 87Ω +/- 5 % | |
| (2) | Capacitive reactances passsignal and blocksignal. (A) DC,AC (C) Low voltage dc, high voltage ac (B) AC,DC (D) none of above | |
| (3) | converts one form of energy to another form of energy.(A) Transducer(C) Transconductance(B) Transmission(D) none of above | |
| Q-2 1. 2. 3. | Short answer type questions. (attempt any two) Briefly explain Thermistors. What is an inductive reactance (X _L)? Which factors affects the motion of moving coil in a magnetic field? | [4] |
| Q-3 | Enlist different types of Resistor and explain any two fixed type resistor with necessary figure. | [6] |
| Q-3 | OR Explain a voltmeter-ammeter method for resistance measurement. | [6] |
| Q-4 | Explain: (1) Electrolytic capacitor (2) Ceramic capacitor | [6] |
| Q-4 | OR Explain fixed type inductor with necessary figure. | [6] |
| Q-5 | Explain suspended type galvanometer construction and working with necessary figure. | [6] |
| Q-5 | OR Discuss the constructional details and temperature compensation of the PMMC mechanism. | [6] |

*** ALL THE BEST ***