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

B.Sc. 6th semester

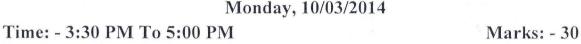
Instrumentation (Vocational)

US06CINV01

Process Measurement Techniques II

Internal Test

Monday, 10/03/2014



- Q1 Answer the following questions (Any three) (6)
- Give the name of quantities which can be estimated by measuring the level (1)of fluid in the tank.
- (2)Explain working principle of the capacitance type level gauge.
- Give an account on distillation method for moisture measurement. (3)
- (4)Discuss the relationship between time and temperature in the thermal drying method of moisture measurement.
- (5)List the factor that governs the flow of fluids in closed pipes.
- (6)Explain the need for the converging and diverging cone in venturi flow meter
- Q2 Write a note on Indirect type methods of liquid level measurement. (8)
- Q2 Write a note on Resistance and Capacitance type methods of liquid (8) level measurement.
- Q3 Draw the schematic diagram of the Industrial dew point apparatus (8) and explain it briefly.

OR

- Q3 Explain Absorption Hygrometer and Psychrometer with necessary (8) diagrams.
- Q4 Explain various types of the Flow Nozzles in detail and derive an (8) expression for flow rate through flow nozzles.

OR

Q4 Explain Venturi meter in detail. Mention its advantages and (8) disadvantages.