

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



Time: - 3:30 PM To 5:00 PM

Marks: - 30

- Q1 Answer the following questions (Any three) (6)**
- (1) Give the name of quantities which can be estimated by measuring the level of fluid in the tank.
 - (2) Explain working principle of the capacitance type level gauge.
 - (3) Give an account on distillation method for moisture measurement.
 - (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)**
- OR
- Q2 Write a note on Resistance and Capacitance type methods of liquid level measurement. (8)**
- 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 diagrams. (8)**
- Q4 Explain various types of the Flow Nozzles in detail and derive an expression for flow rate through flow nozzles. (8)**
- OR
- Q4 Explain Venturi meter in detail. Mention its advantages and disadvantages. (8)**