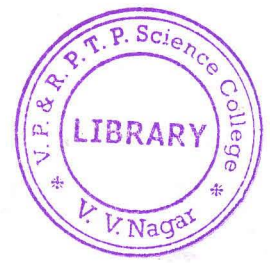


V.P. & R.P.T.P. SCIENCE COLLEGE
T.Y.B.Sc. (Sixth semester)
Instrumentation (Vocational) US06CINV01
Process Measurement Techniques



Internal Test

Monday, 12/03/2018

Time: - 11:00 AM To 12:00 PM

Marks: - 25

Q.1 Choose the correct answer (Attempt all) (3)

I In which type of level measuring method conducting liquid is required?

- (a) Resistive (c) Capacitive.
(b) Ultrasonic. (d) Radioactive.

II Percentage of Moisture content is calculated on _____

- (a) Wet basis. (c) Dry basis.
(b) Relative base. (d) None of above.

III What should the Reynold's no for Laminar flow of fluids?

- (a) 1750 (c) 2800
(b) 2900 (d) 4500

Q2 Answer the following questions (Any two) (4)

- (1) Give the name of quantities which can be estimated by measuring the level of liquid in the tank.
(2) Define Moisture, Humidity and Due point.
(3) Differentiate Laminar and Turbulent flow of fluid.

Q3 Discuss the Indirect methods for measuring liquid level briefly. (6)

OR

Q3 Write a note on Resistance and Capacitance type methods of liquid level measurement. (6)

Q4 Explain Electrolytic and Capacitance method for moisture measurements. (6)

OR

Q4 With necessary diagram explain working of automatic electronic Psychrometer. (6)

Q5 Explain Venturi meter in detail. Mention its advantages and disadvantages. (6)

OR

Q5 Explain the Rota meter in detail. Also derive its equation for flow rate. (6)