

V. p. R. P. T. P. Science College
S.Y. B.Sc. Industrial Chemistry Vocational, Semester-VI
US06CICH05
Industrial Instrumentation and Process Control
Date: 16th March 2018

Time: 11:00 am to 12:30 pm

Total Marks: 25

Q1. Answer the following multiple choice questions.

[03]

1. _____ is used as low expansion metal in bimetallic thermometer.

- a. Invar b. Bronze c. Nickel d. Ni-Mo alloy

2. Water is _____ times lighter than mercury

- a. 7 b. 100 c. 41 d. 14

3. Theoretical velocity of pitot tube is _____.

- a. $\sqrt{2gh}$ b. $2gh$ c. $3gh$ d. $4gh$



Q-2 Answer any three of the following: (Any Two)

[04]

1. Name the different temperature scales used in practice.
2. Define pressure and List different units of pressure.
3. Explain the classification of orifice plate with figure.

Q – 3 Explain Construction, Working, Principle and advantage of thermocouple

[06]

OR

Q – 3 Discuss Mercury in glass thermometer in detail.

[06]

Q – 4 Write a note on sight glass method.

[06]

OR

Q – 4 Explain dead weight piston gauge used for vacuum measurement in brief

[06]

Q – 5 Write principle, construction, working advantages and disadvantages of Venturimeter.

[06]

OR

Q – 5 Explain working of Rota-meter.

[06]