

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER – 2016**B.Voc. Chemical Technology****BVCT-102 - FUNDAMENTAL INDUSTRIAL CHEMISTRY-I***Duration of Exam – 3 hrs**Semester – I**Max. Marks – 70***Que. 1 (A) – Answer the following Questions****[10]**

1. What is primary element of mercury thermometer?
2. What is fluid?
3. Enlist units of temperature measurement.
4. Convert 100 °C in Kelvin scale.
5. Define: Calibration of measuring instrument.
6. What is dead zone of measuring instrument
7. Give the Examples of orifice type viscometer.
8. _____Rays is used for Radiation type liquid level measurement.
9. Convert 104 °F in °C.
10. What is pressure drop?

Que. 1 (B) – Answer the following Questions**[20]**

1. Explain Falling ball viscometer.
2. Enlist types of expansion thermometer.
3. Give any two examples of self operated devices.
4. Give advantages of remote sensing devices for temperature measurement.
5. Enlist any two Density measurement methods with its ASTM No.
6. Give any two examples of power operated devices.
7. Explain in brief, Hook type level indicator.
8. Give only diagram of sight glass level indicator.
9. Define: a) Gauge pressure, b) Absolute pressure.
10. Enlist types of energy involved in flowing of fluid.

Que. 2 Answer the following Questions (Any Four)**[20]**

1. Explain float type liquid level measurement in detail.
2. Explain mercury thermometer in detail.
3. Explain inclined manometer in detail.
4. Explain rotational viscometer.
5. Give a short note on nozzle meter for flow measurement.
6. Explain functional elements of an instrument system.

Que. 3 Answer the following Questions (Any Four)**[20]**

1. Explain dynamic characteristics of measuring instruments.
2. Write a short note on pyrometer.
3. Explain radiation type level indicator.
4. Explain principle, construction and working of venture meter in detail.
5. Explain U tube manometer in detail.
6. Enlist detailed classification of measuring instrument.