

QUESTION BANK

Subject:- Process Instrumentation

Subject Code:-BTCHC 604

- 1) Write a Short note on Bimetallic Thermometer [4M]**
- 2) What are static and dynamic Characteristics?[2M]**
- 3) Write a short note on U- Tube Manometer [4M]**
- 4) Explain the construction and working of Rotameter with appropriate diagram [5M]**
- 5) Give the composition of J,K,T type thermocouple [3M]**
- 6) what are thermocouple wires and explain themocouple wells [4M]**
- 7) Write a Short note on Pressure Spring Thermometer [4M]**
- 8) Explain the Construction and working of variable head type flowmeter with the help of diagram [4M]**
- 9) Define the following terms [10M]**
 - a) Precision**
 - b) Repeatability**
 - c) Process Instrumentation**
 - d) Accuracy**
 - e) Static Error**
 - f) Dynamic Error**
 - g) Response time**
 - h) Sensitivity**
 - i) Dead Zone**
 - j) Drift**
- 10) State whether the following statements are True or False[3M]**
 - a) Orifice Plate is used to create differential pressure.**

b) Thermocouple require bridge Circuit.

c) Flow Nozzle are used to measure the high flow rate.

11) Write Short Note on Direct or mechanical level measurements [5M]

12) Explain open channel meters . [4M]

13) Describe with the help of neat sketches ,construction and working of Bellows.[5M]

14) List the different level measuring instruments. Draw any one of them.[5M]

15) Explain seeback effect of thermocouple.[3M]

16) Describe about Absolute scale and vacuum scale for pressure measurements.[3M]

17) write short note on Viscometer. [4M]

18) How pressure is measured in corrosive liquids? [4M]

19) write down names of any four types of thermocouples with their respective composition.[4M]

20) Explain working of ultrasonic flowmeter with its diagram.[5M]