

Question Bank

Name of subject: Industrial Measurements

Subject code: 17434

Semester: IV

Branch: - IS/IE/EJ

UNIT –TEST II

Chapter 4 LEVEL MEASUREMENT(16)

3 Marks Question:

- 1) Explain the working of any one float type level measurement.
- 2) State any two advantages, disadvantages of Ultrasonic level measurement.
- 3) List the different level measurement methods.

4 Marks Question:

- 4) Explain construction & working principle of Capacitive Level Measurement System.
- 5) Explain construction & working principle of Ultrasonic level measurement.
- 6) Explain construction & working principle of Radar level measurement.

Chapter: 5 TEMPERATURE MEASUREMENT(20M)

3 Marks Question:

- 1) List different temperature scales & state the relationship.
- 2) Explain the working of bimetallic thermometer.
- 3) Compare between RTD & Thermistor.
- 4) Draw the circuit of 2 wires, 3 wires & 4 wires RTD.
- 5) List units of temperature and shows its conversion procedure.

4 Marks Question:

- 6) Explain construction & working principle of thermocouple with neat diagram.
- 7) What is Pyrometer? Explain any one type of pyrometer.
- 8) Convert 50° temperature into Kelvin, Fahrenheit units.
- 9) State Seebeck and Peltier effect.
- 10) Calculate the output resistance of PT100 RTD for temperature value 25°c and 55°c .

Chapter: 6 SPECIAL TRANSDUCER MEASUREMENT (14M)

3 Marks Question:

- 1) Explain Absolute & relative Humidity.
- 2) Explain the Capacitive Hygrometer.
- 3) Compare between AC & DC tachometer.

- 4) List and Compare any two non contact type transducer on the basis of any two factors.

4 Marks Question:

- 5) Explain construction & working of any one pH measurement method.
- 6) Explain construction & working of Non-contact type Tachometer for measurement of speed.
- 7) Explain construction & working of Contact type Tachometer for measurement of speed.
- 8) Explain Hair type Hygrometer with neat sketch.
- 9) Explain construction & working of DC tachometer.