

## 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.