

- Q.24 What is photo transistor and explain its working.
- Q.25 Discuss about seismic transducer.
- Q.26 Write a note on measurement of pH.
- Q.27 Write a short note on micrometer.
- Q.28 Discuss about measurement of viscosity and explain any one method.
- Q.29 Draw the functional elements of measuring system.
- Q.30 Explain about LED
- Q.31 Define variable reluctance type tachogenerator
- Q.32 Write a short note on strain gauge
- Q.33 Discuss about the various light modulating techniques.
- Q.34 Input output configuration of instrumentation system
- Q.35 Define stroboscope for angular velocity measurement.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain Measurement system with Block Diagram.
- Q.37 Define pH and various techniques to measure the pH value.
- Q.38 Explain about measurement of thickness.

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6th Sem / IC

Subject:- Advanced Measurement Techniques

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 For acidic solution the pH. Value lies between.
- | | |
|------------|----------------------|
| a) 7 to 14 | b) 0 to 7 |
| c) 0 to 14 | d) None of the above |
- Q.2 LVDT is used for the measurement of
- | | |
|-----------------|---------|
| a) Displacement | b) Flow |
| c) Temperature | d) None |
- Q.3 Displacement=?
- | | |
|------------------------|--------------------|
| a) Acceleration / time | b) velocity X time |
| c) Speed X time | d) Velocity / time |
- Q.4 Unit of Inductance
- | | |
|----------|----------|
| a) Hertz | b) Farad |
| c) Henry | d) Ohm |

Q.5 Protector is used for the measurement of

- a) Length
- b) Angle
- c) Force
- d) None

Q.6 Which device is used to measure the temperature of an object?

- a) Thermometer
- b) Odometer
- c) Potentiometer
- d) Galvanometer

Q.7 The viscosity is measured by _____

- a) Hydrometer
- b) Accelerometer
- c) Viscometer
- d) None of these

Q.8 Which transducer is an active transducer.

- a) LVDT
- b) Strain Gauge
- c) Photo voltaic cell
- d) None of these

Q.9 The first stage of a measuring system is also known as

- a) Detector transducer stage
- b) Intermediate stage
- c) Terminating stage
- d) None of these

Q.10 Unit of Capacitor _____

- a) Farad
- b) Henry
- c) Ohm
- d) All of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is Primary sensing element.

Q.12 Function of intermediate stage of a measuring system.

Q.13 What do you mean by Accuracy in measurement?

Q.14 Differentiate between accuracy and precision.

Q.15 Write the name of transducer used for vibration measurement.

Q.16 Define velocity.

Q.17 SI unit of temperature.

Q.18 What is resolution?

Q.19 Define Doppler effect?

Q.20 Explain LVDT.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain about the dial bevel protector and why it is used?

Q.22 Write short note on photo voltaic cell.

Q.23 What is opto-isolator?