

- 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

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- Q.5 Protector is used for the measurement of
- Length
 - Angle
 - Force
 - None
- Q.6 Which device is used to measure the temperature of an object?
- Thermometer
 - Odometer
 - Potentiometer
 - Galvanometer
- Q.7 The viscosity is measured by_____
- Hydrometer
 - Accelerometer
 - Viscometer
 - None of these
- Q.8 Which transducer is an active transducer.
- LVDT
 - Strain Gauge
 - Photo voltaic cell
 - None of these
- Q.9 The first stage of a measuring system is also known as
- Detector transducer stage
 - Intermediate stage
 - Terminating stage
 - None of these
- Q.10 Unit of Capacitor_____
- Farad
 - Henry
 - Ohm
 - All of these

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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?

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