

Q.31 Explain the working of potentiometer.

Q.32 Explain how pH of Liquid is measured.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Write the basic principle and working of LVDT. Also explain how it is used to measure displacement.

Q.34 Explain how level of liquid is measured using direct and indirect method.

Q.35 What is pressure? Explain how it is measured by Bourdon's Tube.

Q.36 What is atmospheric humidity how it is measured by Hygrometer.

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4th Sem. / Electronics & communication Engg.

Subject : Instrumentation

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Give unit of Strain.

Q.2 Expand LVDT.

Q.3 Bourdons tube is used to measure density

Q.4 _____ is presence of water vapour in air.

Q.5 SI Unit of pressure is _____.

Q.6 Thermocouple is based on _____ Effect.

Q.7 Piezoelectric Crystal can act as passive Traducer (True/False).

Q.8 Strain gauge is a _____ Transducer.

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Q.9 Thermopile is used to measure Torque (True/False).

Q.10 Freezing point of water is _____degree celcius.

SECTION-B

Note:Very Short answer type questions. Attempt any ten questions out of twelve questions,. 10x2=20

Q.11 What is an active transducer.

Q.12 Define Measurand.

Q.13 Define speed.

Q.14 Write two examples of display devices.

Q.15 Define Humidity.

Q.16 What is secondary transducer.

Q.17 Draw Symbol of LED.

Q.18 Define gauge factor.

Q.19 State 2 application of Ultrasonic transducer.

Q.20 Name two methods to measure flow.

Q.21 What is an inverse transducer.

Q.22 State Piezoelectric effect.

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 Explain how transducer are classified

Q.24 Explain the working principle of Inductive transducer.

Q.25 Explain the working of carbon microphone.

Q.26 Differentiate between Primary and Secondary transducer

Q.27 Write principle and working of piezoelectric transducer.

Q.28 Explain the working of thermistors.

Q.29 Explain torque measurement by Brake Dynamometer.

Q.30 Explain the working of pyrometers.

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