

- Note:** Long Answer type question. Attempt any two questions. (2x10=20)
- Q.36 What is humidity? Write down the types of humidity and techniques used for its measurement.
- Q.37 What is bourdon tube? How it is used for pressure measurement. Explain the working of “C type bourdon tube.
- Q.38 Name the various direct and indirect liquid level measurement techniques and describe one from each.

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- Q.5 Which of the following is a desirable characteristic of an instrument?
- High accuracy
 - High sensitivity
 - Low response delay
 - All of the above
- Q.6 Unit of pressure is _____
- Mass/Area
 - Force/Area
 - Force/Volume
 - Mass/Volume
- Q.7 Which of the following temperature measuring instrument need not touch the object whose temperature is being measured?
- Radiation pyrometer
 - Thermoelectric pyrometer
 - Glass thermometer
 - None of the above
- Q.8 The closeness with which the reading of an instrument approaches the true value of the variable being measured is called.
- Accuracy
 - Precision
 - Durability
 - Dependability
- Q.9 Full form of RTD is
- Resistant temp. detector
 - Resistant time device
 - Real temp. device
 - None of the above
- Q.10 Thermistors have _____ temperature coefficient.
- Positive
 - Negative
 - Zero
 - None of the above

SECTION-B

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

- Q.11 Name two level measurement instruments.
- Q.12 Give the full form of DBT and WBT.
- Q.13 One atmospheric pressure is equal to _____.
- Q.14 Name the different types of Bourdon tubes used for pressure measurements.
- Q.15 Write down the common types of Manometers.
- Q.16 Boiling point of water is _____ degree Kelvin.
- Q.17 Name the different types of diaphragms used for pressure measurements.
- Q.18 Metal used as high expansion material in Bimetallic thermometer is _____.
- Q.19 Material used to make bourdon tube is _____.
- Q.20 What is measured with Orifice Meter?

SECTION-C

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

- Q.21 Name the types of fluid flow.
- Q.22 Write short note on sight glass liquid level measurement techniques.
- Q.23 Name any four static characteristics of instruments and define any one.
- Q.24 Name any two non electric temperature measuring devices and define any one.
- Q.25 Give the name of different thermometers and briefly describe any one.