



1B. List the differences between the following

i) Transducer and Inverse Transducers

ii) Active and Passive Transducers

- iii) Analog and Digital Transducers
- 1C. Illustrate construction and working of differential pressure transmitter and mention its advantage and disadvantages.

(4+3+3)

- 2A. Illustrate how dead weight tester can be used for calibration of pressure gauge.
- 2B. Explain various laser technologies involved in level measurement. Define blindeye effect of a sensor and explain how it will affect the sensor output.

(6+4)

3A. Categorize different control valve characteristics and explain its working.

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- 3B. Write about different elastic pressure measurement techniques.
- 3C. List the factors influencing the choice of transducers.

(4+4+2)

- 4A. Brief about different electrical tachometer and mention its advantages.
- 4B Express the principle of working of a Thermo Couple (TC). What are the important criteria and laws involved in TC? What is the range and sensitivity of K type Thermo couple?

(5+5)

- 5A. Categorize different SMART sensor generations with an example.
- 5B. Derive the general volumetric flow rate equation for differential pressure flow measurement.

(5+5)
