Q.19 Explain the Resistive transducer method for level measurement.

Q.20 Explain the Gamma rays method for level measurement.

Q.21 Discuss the objective of DAC.

Q.22 Explain the Block diagram explanation, characteristics of data Logger.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the working principle and Construction of Venturimeter, Write the advantage disadvantage and their application.

Q.24 Explain the working principle and construction of RTD and thermistor.

Q.25 Discuss the Mc. Leod gauge and pirani gauge for low Pressure measurement and also drive the expression of pressure calculation.

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5th Sem / Instrumentation & Control

Subject : Process Instrumentation

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following device is used for pressure measurement.

a) Burdon Tube b) Manometer

c) Bellows d) All of these

Q.2 RTD is a type of

a) Negative Temperature coefficient of resistance

b) Positive Temperature coefficient of resistance

c) Both A & B

d) None of these

Q.3 Which of the device is used for the temperature measurement.

a) RTD b) Thermistor

c) Thermocouple d) All of these

Q.4 Electro-magnetic flow meterbased on the principle of.

a) See-back effect

b) Doppler effect

c) Electro-magnetic based

d) None of these

Q.5 Newton is unit of

a) Force b) Flow

c) Temperature d) Pressure

Q.6 Which is an example of signal conditioner

a) RCV420KPG4 b) XMPA06B2131

c) RD-KL25-AGMP01 d) 792XDM4L-24A

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 RTD is used measurement of_____

Q.8 Ultrasonic flow meter principle based on _____

Q.9 Orifice is used for measurement of_____

Q.10 Unit of Force_____

Q.11 Resistive transducer is used for level measurement (Yes/No)

Q.12 PLC stands for_____

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain the working principle and construction of thermocouple.

Q.14 Discuss the Radiation Pyrometer and fiber Optic Thermometer.

Q.15 Explain the Well type and Inclines type manometer.

Q.16 Explain Elastic element for Pressure measurement.

Q.17 Explain the working Principle of the Rotameter and how the flow rate calculates.

Q.18 Explain the Elctromagnetic flow measurement.