Code No: 5455AQ

Answer any five questions
All questions carry equal marks

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1.a) Explain the different principles of working of capacitive transducers.
  b) Explain in detail about characteristics of Transducer.   [7+8]

2.a) Explain strain gauge? Mention the types of strain gauges and explain in detail.
  b) Explain in detail about Electro static transducer.   [7+8]

3.a) Explain in detail about Resistance Change Type Thermometric Sensors.
  b) Explain in detail about heat flux sensors.   [8+7]

4.a) Explain in detail about Semiconductor Magneto resistors.
  b) Explain in detail about SQID sensors.   [7+8]

5.a) Explain in detail about X-ray and Nuclear Radiation Sensors.
  b) Explain about Electro ceramics in gas media.   [8+7]

6.a) Explain in detail about Standard Hydrogen Electrode (SHE).
  b) Explain in detail about Data Communication in connection with smart sensor.   [8+7]

7.a) Explain in detail about Aerospace Sensors.
  b) Explain about sensors for Environmental monitoring.   [7+8]

8.a) Explain in detail about Rotary actuators.
  b) Explain in detail about Solid-state switches and Solenoids.   [7+8]

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