Question Bank

Subject: Mechatronics

Course: B.E (Mechanical Engineering)

PART-A(2 Marks)

- 1. What is meant by sequential controller?
- 2. What is the control variable and control unit in an automatic water level controller?
- 3. What is meant by the accuracy of a sensor?
- 4. What are the types of encoders?
- 5. What is the use of tachogenerator?
- 6. Distinguish between active and passive transducer?
- 7. What is a load cell?
- 8. Write note on optical sensor
- 9. Distinguish between transducer and sensor
- 10. What is a thermistor?
- 11. What is photoelectric effect?
- 12. Write note on thermodevices

PART-B

- 1. Explain the basic elements of a closed loop system
- 2. Explain the sequential control system with an example
- 3. Compare and contrast the control system for the domestic central heating system involving a bimetallic thermostat with a microprocessor based.
- 4. Write the advantages and disadvantage of closed loop system
- 5. Explain any five characteristics of a sensor
- 6. Write about the mechatronics based engine management system
- 7. Explain about the displacement sensors
- 8. Explain various flow transducers