

Code: 17D06204

M.Tech II Semester Supplementary Examinations January/February 2019

SENSORS & ACTUATORS

(Common to DECS, ECE & DSCE)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 What is the function of transducer? List various transducers used in different applications. Explain.

OR

- 2 (a) Compare inductive and capacitive sensors.
(b) Write a brief note on ultrasonic sensors.

- 3 Explain about gas thermometric sensor and acoustic temperature sensor.

OR

- 4 What is anisotropic magnetoresistive sensing? Explain.

- 5 What are the basic characteristics of radiation sensors? Explain.

OR

- 6 Discuss about the cell potential and standard hydrogen electrode.

- 7 Discuss about Home Appliance sensors.

OR

- 8 Explain in detail about Aerospace sensors.

- 9 What are the real time applications of actuators? Explain.

OR

- 10 What is principle and operation of DC motor, AC motor and stepper motors?
