

Reg. No. :

Question Paper Code : 11363

M.E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Elective

Applied Electronics

VL 5091 – MEMS and NEMS

(Common to M.E. Communication Systems/M.E. Communication and Networking/M.E. Electronics and Communication Engineering/M.E. VLSI Design)

(Regulation 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Enlist any two commercial MEMS and microsystems products available.
2. List the application of MEMS and Microsystems in the telecommunication industry.
3. Enlist the two types of etching techniques.
4. Mention the major objectives of mechanical packaging of microelectronics.
5. List the different types of MEMs Sensors.
6. How does piezo resistive pressure sensors work?
7. State the Working Principles for Micro actuators.
8. Enlist the function and application of gyroscope.
9. Compare Microsystems with Nano Technologies.
10. State the principle and uses of molecular dynamics.

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