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M.Tech. (VLSI D) EL-IV (2016 & Onwards) (Sem.-3) SENSOR TECHNOLOGY AND MEMS

Subject Code: MTVL-308 Paper ID: [74817]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Q1) Describe the Acoustic and Radiation Sensors.
- Q2) Differentiate between Wet Etching and Dry Etching.
- Q3) Illustrate the functionalities of MEMS and NEMS devices.
- Q4) Describe in detail:
 - a) Lithography
 - b) Sacrificial Layer Technology
- Q5) What are Smart Sensors? Discuss its purpose and functions.
- Q6) Briefly describe the electrostatic-elastic systems.
- Q7) Discuss the Adhesion Problems in Surface Micromachining.
- Q8) Discuss the evolution of Micro Sensors.

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