

**MODEL QUESTION PAPER**  
**SEVENTH SEMESTER B.TECH DEGREE EXAMINATION**  
**Elective IV**

**08.736 MEMS (IA)**

**Time 3 hours**

**Max. Marks 100**

**PART A**

*(Answer All questions)*

**(10 x 4 = 40marks)**

1. List a few applications of Microsystems in the automotive industry.
2. Explain the working principle of chemical microsensors.
3. With neat sketches, explain micro grippers.
4. Explain Trimmer Force Scaling Vector.
5. What is ion implantation?
6. What is the working principle of the chemical vapour deposition?
7. What are the major advantages of surface micro machining?
8. Why silicon is widely used as the substrate material for MEMS and Microsystems?
9. What are the principle requirements that should be considered on the detailed design analysis?
10. Mention a few optical MEMS components.

**PART B**

*(Answer any two questions from each module)*

**MODULE I**

**(10x3=30 marks)**

11. Explain micro pressure sensors.
12. Briefly explain micro accelerometers.
13. Write notes on scaling in heat transfer.

**MODULE II**

**(10x3=30marks)**

14. With neat sketches explain the steps involved in photolithography
15. Explain the fabrication steps in the LIGA process.
16. Explain bulk micro manufacturing.

**MODULE III**

**(10x3=30 marks)**

17. Explain the three levels of micro system packaging.
18. Explain the various interfaces in micro system packaging.
19. Explain the selection of signal transduction in micro system.

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**Katrin Zwirglmaier**



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