

Code No: 118CY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2019

MEMS DESIGN

(Mechanical Engineering (Mechatronics))

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****(25 Marks)**

- 1.a) Explain the role of nanotechnology in MEMS fabrication. [2]
- b) Differentiate between structural and sacrificial materials. [3]
- c) List out the basic modeling elements in electrical system. [2]
- d) What are the features of passive electronic systems? [3]
- e) Explain the working principle of peltier effect heat pump. [2]
- f) Give the characteristics of shape memory alloy. [3]
- g) What are the uses of beam splitter? [2]
- h) Explain the principle of optical switch. [3]
- i) What are the applications of MEMS inductors? [2]
- j) Explain the working of MEMS based phase shifter. [3]

**PART - B****(50 Marks)**

- 2.a) Describe bio and chemo devices.
  - b) Explain various stages at which impurity doping is done in MEMS fabrication. [5+5]
- OR**
- 3.a) Explain the steps involved in photolithography.
  - b) Differentiate between bulk and surface micromachining. [5+5]
- 4.a) Explain the features of passive mechanical systems.
  - b) Describe the basic modeling elements of fluid systems. [5+5]
- OR**
5. Explain the steps involved in the modeling of pure mechanical system with spring, damper and mass. [10]
  6. With the help of suitable diagrams explain how flow measurement can be done using integrated paddle-cantilever structure. [10]
- OR**
7. Explain the steps involved in the fabrication of micro-machined thermocouple probe and explain its working. [10]

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**WJ Hussar**



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