

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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Table of Contents Mems Question Papers

1. Understanding the eBook Mems Question Papers
 - The Rise of Digital Reading Mems Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mems Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mems Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mems Question Papers
 - Personalized Recommendations

- Mems Question Papers User Reviews and Ratings
- Mems Question Papers and Bestseller Lists
- 5. Accessing Mems Question Papers Free and Paid eBooks
 - Mems Question Papers Public Domain eBooks
 - Mems Question Papers eBook Subscription Services
 - Mems Question Papers Budget-Friendly Options
- 6. Navigating Mems Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mems Question Papers Compatibility with Devices
 - Mems Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mems Question Papers
 - Highlighting and Note-Taking Mems Question Papers
 - Interactive Elements Mems Question Papers
- 8. Staying Engaged with Mems Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mems Question Papers
- 9. Balancing eBooks and Physical Books Mems Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mems Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mems Question Papers
 - Setting Reading Goals Mems Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mems Question Papers
 - Fact-Checking eBook Content of Mems Question Papers

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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