

Code No: 5115V  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
M.Tech II Semester Examinations, October - 2015  
MECHATRONICS  
(Machine Design)

Time: 3 Hours

Max. Marks: 60

Note: This question paper contains two parts A and B.  
Part A is compulsory which carries 20 marks. Answer all questions in Part A.  
Part B consists of 5 Units. Answer any one full question from each unit.  
Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

5 x 4 marks = 20

- 1.g) Explain the principle and applications of Proximity and light sensors. [4]
- b) Expand FET. Sketch its symbol. Mention its characteristics. [4]
- c) Differentiate between pneumatic systems and hydraulic systems. [4]
- d) Explain how is microcontroller different from microprocessor? [4]
- e) Describe any two analog to digital converters ADCs. [4]

PART - B

5 x 8 marks = 40

- 2.a) Explain the various elements of a typical mechatronics system. [4+4]
- b) Explain open loop and closed loop control systems with sketches. [4+4]

OR

- 3.a) Differentiate between sensors and transducers. [4+4]
- b) Explain with sketch the working principle of instruments for measurement of (i) Liquid level (ii) Temperature [4+4]

- 4. Explain the following: [3+3+2]
  - a) P-N Junction Diode
  - b) Signal conditioning process
  - c) Applications of amplifiers.

OR

Define MEMS? What are the types and applications of MEMS? [8]

- 6.a) Explain the functions of Relief valve and Direction control valve. [4+4]
- b) With a neat sketch explain working principle of solenoid. [4+4]

OR

Explain the working of Electro-Hydraulic actuating system with a neat sketch. [8]

- 8. With the help of family functional diagram explain the working of any microcontroller. [8]

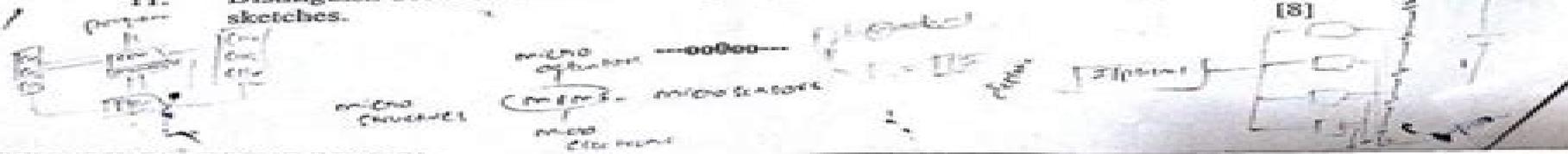
OR

What is the role of PLC in digital systems? With a neat sketch explain the architecture of PLC. [8]

- 10. What is SCADA? Explain the SCADA's schematic overview and explain it's common system components. [8]

OR

11. Distinguish between traditional design approach and mechatronics approach with sketches. [8]



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**Padhraic Smyth**



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## **Table of Contents Mtech Question Papers Jntu**

1. Understanding the eBook Mtech Question Papers Jntu
  - The Rise of Digital Reading Mtech Question Papers Jntu
  - Advantages of eBooks Over Traditional Books
2. Identifying Mtech Question Papers Jntu
  - 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 Mtech Question Papers Jntu
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mtech Question Papers Jntu
  - Personalized Recommendations
  - Mtech Question Papers Jntu User Reviews and Ratings
  - Mtech Question Papers Jntu and Bestseller Lists
5. Accessing Mtech Question Papers Jntu Free and Paid eBooks
  - Mtech Question Papers Jntu Public Domain eBooks

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- Mtech Question Papers Jntu Budget-Friendly Options
- 6. Navigating Mtech Question Papers Jntu eBook Formats
  - ePub, PDF, MOBI, and More
  - Mtech Question Papers Jntu Compatibility with Devices
  - Mtech Question Papers Jntu Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mtech Question Papers Jntu
  - Highlighting and Note-Taking Mtech Question Papers Jntu
  - Interactive Elements Mtech Question Papers Jntu
- 8. Staying Engaged with Mtech Question Papers Jntu
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mtech Question Papers Jntu
- 9. Balancing eBooks and Physical Books Mtech Question Papers Jntu
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mtech Question Papers Jntu
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mtech Question Papers Jntu
  - Setting Reading Goals Mtech Question Papers Jntu
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mtech Question Papers Jntu
  - Fact-Checking eBook Content of Mtech Question Papers Jntu
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

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- Interactive and Gamified eBooks

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