

20/7/21  
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**M Sc DEGREE (CSS) EXAMINATION, JULY 2021**

**Fourth Semester**

Faculty of Science

M Sc PHYSICS

**Elective - PH800402 - MICRO ELECTRONICS AND SEMICONDUCTOR DEVICES**

2019 Admission Onwards

F930D8CB

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

Answer any **eight** questions.

Weight **1** each.

1. What do you mean by direct mapping?
2. Draw programming model of 8085.
3. Differentiate the instructions JMP and JC.
4. Mention the addressing modes of the following 8086 instructions. (i) MOV AL, DISP[AX] (ii) MOV AH, DISP[BX][SI]
5. What are the functions performed by logical instructions in 8086 microprocessor? Give an example and explain?
6. What you mean by an embedded system?
7. What is the condition that a clock frequency of a microcontroller to be a standard one?
8. How can we estimate the timer frequency of a microcontroller?
9. Explain the masking and etching process.
10. How are the various areas of the chip electrically isolated from each other?

**Part B (Short Essay/Problems)**

Answer any **six** questions.

Weight **2** each.

(8×1=8 weightage)

11. State the components of microcomputer system and explain the functioning of each.
- ✓ 12. What are the functional parts of 8086 CPU?

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## **Table of Contents Question Paper Of Msc Physics At Ravenshaw University**

1. Understanding the eBook Question Paper Of Msc Physics At Ravenshaw University
  - The Rise of Digital Reading Question Paper Of Msc Physics At Ravenshaw University
  - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Of Msc Physics At Ravenshaw University
  - 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 Question Paper Of Msc Physics At Ravenshaw University
  - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper Of Msc Physics At Ravenshaw University
  - Personalized Recommendations
  - Question Paper Of Msc Physics At Ravenshaw University User Reviews and Ratings
  - Question Paper Of Msc Physics At Ravenshaw University and Bestseller Lists
5. Accessing Question Paper Of Msc Physics At Ravenshaw University Free and Paid eBooks

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