### Scheme - I

### Sample Question Paper

Program Name	: Diploma in Medical Electronics	
Program Code	: MU	22434
Semester	: Fourth	
Course Title	: Microcontroller and Embedded System	

### Instructions:

Minurks

- 1) All questions are compulsory.
- Illustrate your answers with neat sketches wherever necessary.
- Figures to the right indicate full marks.

: 70

- Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

### Q.1) Attempt any FIVE of the following.

### 10 Marks

Time: 3 Hrs.

- a) Differentiate between microprocessor and microcontroller based on the following parameters.
  - i) Memory.
  - ii) Timers/counters and Interrupts
- b) State two applications of embedded system
- c) Draw the format of SCON register
- d) List two advantages of embedded system.
- e) Draw interfacing diagram of relay with 89C51 microcontroller.
- f) Draw the format of synchronous and asynchronous data communication
- g) List the various serial and wireless communication protocols.

### Q.2) Attempt any THREE of the following.

### 12 Marks

- a) List the software development tools in an embedded system and state the function of Compiler and Debugger.
- b) Develop an 89C51 C program to read the number 1 from Port 1, number 2 from Port 2 and then add them. Store the result and send it to Port 3.
- c) List alternate functions of Port 3 of 89C51 microcontroller.
- d) Develop 89C51 C program to blink the LED interfaced to pin P1.7

# **Microcontroller Question Paper**

**Rosina Ehmann** 

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## **Table of Contents Microcontroller Question Paper**

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

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