

**Scheme – I**  
**Sample Question Paper**

**Program Name** : Diploma in Medical Electronics  
**Program Code** : MU  
**Semester** : Fourth  
**Course Title** : Microcontroller and Embedded System  
**Marks** : 70

**22434**

**Time: 3 Hrs.**

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**Instructions:**

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

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

**10 Marks**

- 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

**LP Steffe**



## Microcontroller Question Paper:

*Microprocessors and Microcontrollers* Mr. Rohit Manglik, 2024-07-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      Microcontrollers Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8051 and MSP430 microcontrollers It provides comprehensive coverage of the hardware and software aspects of 8051 and MSP430 microcontrollers The book is divided into two parts The first part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 and interfacing 8051 with external memory It explains timers counters serial port interrupts of 8051 and their programming It also describes the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors and DC motor interfacing The second part focuses on MSP430 microcontroller It teaches you the low power features architecture instruction set programming digital I O and on chip peripherals of MSP430 It describes how to use code composer studio for assembly and C programming It also describes the interfacing MSP430 with external memory LCDs LED modules wired and wireless sensor networks      **BASIC ELECTRONICS** Dr K A Navas, T. A. Suhail, 2018-08-01 This book is prepared as per the syllabus of Basic Electronics for first year B Tech Engineering course under Visvesvaraya Technological University Karnataka using the reference books given in the course syllabus Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of topics      **Embedded System - 1** Mr. Rohit Manglik, 2024-03-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      Programmable Microcontrollers: Applications on the MSPM0 LaunchPad Cem Unsalan, H. Deniz Gurhan, M. Erkin Yucel, 2025-07-18 A detailed introduction to embedded designing and programming using the most up to date and market dominant embedded application system Microcontrollers are everywhere These small self contained computers are embedded in and control everything from traffic lights car alarms and TV remote controls to medical devices toys and microwave ovens Programmable Microcontrollers provides the fundamentals on working with Texas Instruments MSPM0 LaunchPad The MSPM0 line of ultra low power mixed signal microcontrollers is used in a large and growing number of applications where efficient data processing and enhanced low power operation are critical Explaining the MSPM0 s working principles through practical applications illustrated examples and DIY projects the expert guide provides the fundamentals required to program microcontrollers Programmable Microcontrollers offers critical information on the dominating C and assembly language programming for this new

microcontroller family of products It introduces Code Composer Studio CCS Theia and its novel features along with SYSCONFIG application usage The book also explores fundamental assembly usage integration and practical use of real time operating systems RTOS and implementation of bootloader mechanisms Moreover it covers the new timer clock tree and power management features offering practical guidance for developers     **Digest of Technical Papers** ,1994

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