M.C.A.

Q.P. Code: 587900

## (3 Hours)

[Total Marks: 80

	N. B.:	(2)	Question No. 1 i Solve any three	from remaining five of	juestions.		
		(3)	Figures to the ri	ight indicate full mark	35.		
		(4)	Assume suitable	data if necessary and	mention the same in the	e answersheet.	
Q1							100
a	-Dif	ferent	iate between m	nicroprocessor and	d microcontroller		5
ь	<ul> <li>a Differentiate between microprocessor and microcontroller.</li> <li>b Explain 8051 assembler directives.</li> </ul>						5
С							5
d List and explain design metrics of an Embedded Syste						.95	5
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Q3					•		
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en.	WAP for 8051 microcontroller to generate a square waveform of frequency 1kHz and 50% duty cycle at pin P1.1. Assume 8051 is						10
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design fundamentals This textbook presents the fundamental concepts common to all microcontrollers Our goals are to present the over arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers. With such goals we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller. We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers Although this is a relatively small book it is packed with useful information for quickly coming up to speed on microcontroller concepts Microcontroller Applications - II Mr. Rohit Manglik, 2024-06-20 Microcontroller designs are analyzed Guides students to understand system applications fostering expertise in electronics through practical experiments and theoretical analysis 2024-25 RRB JE Stage-II Electronics & Allied Engineering Solved Papers YCT Expert Team, 2024 25 RRB JE Stage II Electronics Allied Engineering Solved 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 Microprocessors & Microcontrollers Atul P. Godse, Dr. Deepali A. Godse, 2021-01-01 The book is written for an undergraduate course on the 8086 microprocessor and 8051 microcontroller It provides comprehensive coverage of the hardware and software aspects of 8086 microprocessor and 8051 microcontroller The book is divided into three parts The first part focuses on 8086 microprocessor It teaches you the 8086 architecture instruction set Assembly Language Programming ALP interfacing 8086 with support chips memory and peripherals such as 8251 8253 8255 8259 8237 and 8279 It also explains the interfacing of 8086 with data converters ADC and DAC and introduces a traffic light control system. The second part focuses on multiprogramming and multiprocessor configurations numeric processor 8087 I O processor 8089 and introduces features of advanced processors such as 80286 80386 80486 and Pentium processors The third 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 sensors **Spectrum and Power Allocation in** 

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#### **Table of Contents Microcontrollers And Applications Previous Question Papers**

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

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