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.

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

Mocktime Publication

Microcontroller Question Paper:

Microprocessor and Microcontroller Saurabh Chaudhury,Risha Mal,2025-06-01 *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 *Advanced Microprocessors and Microcontrollers* Mr. Rohit Manglik,2023-06-23 Explores advanced microprocessor and microcontroller systems focusing on architecture programming and applications in embedded systems and automation **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

Microcontrollers Fundamentals for Engineers and Scientists Steven F. Barrett,Daniel J. Pack,2022-06-01 This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers Today microcontrollers or single integrated circuit chip computers play critical roles in almost all instrumentation and control systems Most existing books arewritten for undergraduate and graduate students taking an electrical and or computer engineering course Furthermore these texts have beenwritten with a particular model of microcontroller as the target discussion These textbooks also require a requisite knowledge of digital 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 **CBSE Class 12 - Electronics and Hardware - 10 Sample Papers** Mocktime Publication, CBSE Sample Papers Class 12 Electronics and Hardware *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 *2025-26 DFCCIL CBT-2 Executive Signal & Telecommunication Solved Papers & Practice Book* YCT Expert Team , 2025 26 DFCCIL CBT 2 Executive Signal Telecommunication Solved Papers Practice Book 240 495 E This book contains 4 sets of previous year solved papers and 10 sets of practice book **Spectroscopic and Thermal Methods of Analysis** Mr. Rohit Manglik,2024-03-26 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 **Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers** Yashwant Kumar Parte,2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book **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 *Proceedings* ,1996 Model Papers YCT Expert Team, 2021 O Level Introduction to internet of things IOT and its Application MODULE M4 R5 Model Paper **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 **Tests and Proofs** Marieke Huisman,Falk Howar,2024-09-09 This book constitutes the proceedings of the 18th International Conference on Tests and Proofs TAP 2024 TAP 2024 took place in Milan Italy on September 9 and 10 2024 as part of the Formal Methods symposium FM 2024 which included four more co located conferences besides TAP FMICS Formal Methods in Industrial Critical Systems LOPSTR In ternational Symposium on Logic based Program Synthesis and Transformation PPDP International Symposium on Principles and Practice of Declarative Pro gramming and FACS International Conference on Formal Aspects of Compo nent Software The 7 full papers together with 1 short paper included in this volume were carefully reviewed and selected from 14 submissions TAP s scope encompasses many aspects of verification technology including foundational work tool development and empirical research

Proceedings of the 10th Focus Conference (TFC 2023) Manyane Makua,Mariam Akinlolu,Mashango Sithole,Phiwayinkosi Gumede,Cebo Nyondo,Ntombikhona Khuzwayo,Mandlenkosi Mhlongo,2023-11-03 This is an open access book The 2023 Focus Conference will focus on Goal Four Quality Education of the United Nations UN Sustainable Development Goals SGD Goal Four is seized with providing equal access for all women and men to affordable and quality technical vocational and tertiary education including university Quality education in this context means the ability to function provide and derive value in society The theme of the conference is therefore coined as The Role of Higher Education in the Attainment of Sustainable Quality Education Through this theme the conference will provide a space for participants to share practical knowledge experiences and possible solutions to the myriad of problems that confront the higher education sector Universities are often thought of as ivory towers far removed from the realities that confront global societies To compound this higher education is increasingly being questioned for its relevance in providing practical and innovative solutions to existing societal problems Such questions often navigate around the relevance of the academic programmes being offered curriculum the capacity of staff employability of graduates and generally the ability of these institutions to understand why they exist Indeed higher education s role in creating a sustainable future will presumably take on greater importance as the world continues to become increasingly globalised and interdependent **Digest of Technical Papers** ,1994 Radio Frequency Identification: Security and Privacy Issues Michael Hutter,Jörn-Marc Schmidt,2013-10-31 This book constitutes the proceedings of the 9th Workshop on RFID Security and Privacy RFIDsec 2013 held in Graz Austria in July 2013 The 11 papers presented in this volume were carefully reviewed and selected from 23 submissions RFIDsec deals with topics of importance to improving the security and privacy of RFID NFC contactless technologies and the Internet of Things RFIDsec bridges the gap between cryptographic researchers and RFID developers *Information Security Applications* Heung Youl Youm,Moti Yung,2010-01-08 This book constitutes the thoroughly refereed post conference proceedings of the 10th

International Workshop on Information Security Applications WISA 2009 held in Busan Korea during August 25 27 2009 The 27 revised full papers presented were carefully reviewed and selected from a total of 79 submissions The papers are organized in topical sections on mutlimedia security device security HW implementation security applied cryptography side channel attacks cryptograptanalysis anonymity authentication access controll and network security   Human-Centric Smart Computing Siddhartha Bhattacharyya,Jyoti Sekhar Banerjee,Mario Köppen,2024-02-17 This book includes high quality research papers presented at the Second International Conference on Human Centric Smart Computing ICHCSC 2023 organized by the University of Engineering and Management Jaipur India on 5 6 July 2023 in New Delhi India The topics covered in the book are human centric computing hyper connectivity and data science The book presents innovative work by leading academics researchers and experts from industry

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