

Scheme – I

Sample Question Paper

Program Name : Electronics Engineering Programme Group
Program Code : DE/EJ/ET/EN/EX/EQ/IS/IC/IE
Semester : Fourth
Course Title : Microcontroller and Applications
Marks : 70

22426

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 (5X2)

- (a) Define the term BUS. List out the different types of BUSES.
- (b) Find out the number of address lines required to access 8KB of RAM.
- (c) List different files required during assembly language program.
- (d) Compare Timer and Counter on the basis of Mode of operation.
- (e) Classify the following application under Von-Neuman and Harvard architecture.
 - i. Digital Signal Processing.
 - ii. Audio Processing
- (f) Compare Data memory and Program Memory.
- (g) Give the different applications of Stepper Motor.

Q.2) Attempt any THREE of the following: -

12 Marks (3X4)

- (a) Explain the interfacing diagram of DAC to 8051. Write an ALP to generate triangular waveform using DAC
- (b) Compare between Microprocessor and Microcontroller on the basis of:
 - i. Instruction Set
 - ii. Applications
 - iii. Memory Organization.
 - iv. I/O compatibility

Microcontroller Solve Paper

Atul P. Godse, Dr. Deepali A. Godse

Microcontroller Solve Paper:

2024-25 RRB JE Stage-II Electronics & Allied Engineering Solved Papers YCT Expert Team , 2024 25 RRB JE Stage II Electronics Allied Engineering Solved Papers Practice Book & Solved Papers YCT Expert Team , 2023 UPPCL AA Practice Book Solved Papers 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

Solved Papers (2023-24 RRB ALP ITI Electrical Trade) YCT Expert Team , 2023 24 RRB ALP ITI Electrical Trade Solved Papers 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 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 Oswaal One For All Olympiad Previous Years' Solved Papers Class 8 (Set of 6 Books) Maths,

English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam) ,2024-04-16 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers 2025-26

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Soft Computing for Problem Solving Kedar Nath Das,Jagdish Chand Bansal,Kusum Deep,Atulya K. Nagar,Ponnambalam Pathipooranam,Rani Chinnappa Naidu,2019-11-27 This two volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving SocProS 2018 This conference was a joint technical collaboration between the Soft Computing Research Society Liverpool Hope University UK and Vellore Institute of Technology India and brought together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers on algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems that are difficult to solve using traditional methods

MICROPROCESSORS AND MICROCONTROLLERS KRISHNA KANT,2007-10-22 This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers their principles and applications It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel s legendary 8085 and 8086 microprocessors and Intel s 8051 and 8096 microcontrollers The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design Besides the book lucidly explains the hardware architecture the instruction set and programming support chips peripheral interfacing and cites several relevant examples to help the readers develop a complete understanding of industrial application projects Several system design case studies are included to reinforce the concepts discussed With exhaustive coverage provided and practical approach emphasized the book would be indispensable to undergraduate students of Electrical and Electronics Electronics and Communication and Electronics and Instrumentation Engineering It can be used for a variety of courses in Microprocessors Microcontrollers and Embedded System Design

MICROPROCESSORS AND MICROCONTROLLERS :: ARCHITECTURE, PROGRAMMING AND SYSTEM DESIGN 8085, 8086, 8051, 8096 KRISHNA KANT,2014-01-01 This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers their principles and applications It comprehensively presents the material necessary

for understanding the internal architecture as well as system design aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8051 and 8096 microcontrollers. The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design. Besides, the book lucidly explains the hardware architecture, the instruction set, and programming support chips, peripheral interfacing, and cites several relevant examples to help the readers develop a complete understanding of industrial application projects. Several system design case studies are included to reinforce the concepts discussed. With exhaustive coverage and practical approach, the book would be indispensable to undergraduate students of Electrical and Electronics, Electronics and Communication, and Electronics and Instrumentation Engineering. It can be used for a variety of courses in Microprocessors, Microcontrollers, and Embedded System Design. The second edition of the book introduces additional topics like I/O interfacing and programming serial interface, programming delay, programming using 8086 and 8051. Besides many more examples and case studies have been added.

Embedded Microcontroller Interfacing Gourab Sen Gupta, 2010-07-15 Mixed Signal Embedded Microcontrollers are commonly used in integrating analog components needed to control non-digital electronic systems. They are used in automatically controlled devices and products such as automobile engine control systems, wireless remote controllers, office machines, home appliances, power tools, and toys. Microcontrollers make it economical to digitally control even more devices and processes by reducing the size and cost compared to a design that uses a separate microprocessor, memory, and input/output devices. In many undergraduate and post-graduate courses, teaching of mixed signal microcontrollers and their use for project work has become compulsory. Students face a lot of difficulties when they have to interface a microcontroller with the electronics they deal with. This book addresses some issues of interfacing the microcontrollers and describes some project implementations with the Silicon Lab C8051F020 mixed signal microcontroller. The intended readers are college and university students specializing in electronics, computer systems engineering, electrical and electronics engineering, researchers involved with electronics-based systems, practitioners, technicians, and in general, anybody interested in microcontrollers-based projects.

BSNL Jr. Engineer (TTA) Exam Guide + Practice Workbook (Concept Notes + 2 Solved + 10 Practice Sets) 2nd Edition Disha Experts, 2017-09-01 The book BSNL TTA Exam Guide Practice Workbook Concept Notes 2 Solved 10 Practice Sets 2nd Edition has been specially designed to help students in the BSNL TTA exam. Two fully solved past papers have been provided to guide you about the pattern and the level of questions asked. The book covers theory material for Basic Engineering and Specialization Section to help in the preparation. It also contains 2 past papers and 10 Practice Sets as per the pattern. Each Practice Set is classified into 3 parts: General Ability Test. This part has 20 questions. Basic Engineering. This part has 90 questions. Specialization. This part has 90 questions. The questions in each practice set have been carefully selected so as to give you a real feel of the exam. The book provides Response Sheet for each test. Post each test, you must do a Post Test Analysis with the help of the Test Analysis and Feedback Sheet which has been provided for each test.

Advances in AI for Biomedical Instrumentation, Electronics and Computing Vibhav Sachan, Shahid Malik, Ruchita Gautam, Parvin Kumar, 2024-06-13 This book contains the proceedings of 5th International Conference on Advances in AI for Biomedical Instrumentation Electronics and Computing ICABEC 2023 which provided an international forum for the exchange of ideas among researchers students academicians and practitioners It presents original research papers on subjects of AI Biomedical Communications Computing Systems Some interesting topics it covers are enhancing air quality prediction using machine learning optimization of leakage power consumption using hybrid techniques multi robot path planning in complex industrial dynamic environment enhancing prediction accuracy of earthquake using machine learning algorithms and advanced machine learning models for accurate cancer diagnostics Containing work presented by a diverse range of researchers this book will be of interest to students and researchers in the fields of Electronics and Communication Engineering Computer Science Engineering Information Technology Electrical Engineering Electronics and Instrumentation Engineering Computer applications and all interdisciplinary streams of Engineering Sciences

17th International Conference on Information Technology-New Generations (ITNG 2020) Shahram Latifi, 2020-05-11 This volume presents the 17th International Conference on Information Technology New Generations ITNG and chronicles an annual event on state of the art technologies for digital information and communications The application of advanced information technology to such domains as astronomy biology education geosciences security and healthcare are among the themes explored by the ITNG proceedings Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help information flow to end users are of special interest Specific topics include Machine Learning Robotics High Performance Computing and Innovative Methods of Computing The conference features keynote speakers a best student contribution award poster award and service award a technical open panel and workshops exhibits from industry government and academia

Advances in Technical Diagnostics Anna Timofiejczuk, Bogusław Edward Łazarz, Fakhri Chaari, Rafał Burdzik, 2017-09-04 This book provides readers with an overview of recent theories and methods for machinery diagnostics applied to machinery maintenance Each chapter accepted after a rigorous peer review process reports on a selected original piece of work discussed at the International Congress on Technical Diagnostics ICTD2016 held on September 12 16 2016 in Gliwice Poland The book covers a broad range of topics including machines operating in non stationary conditions and examples from different industrial fields of mechanical civil computer and electronic engineering as well as the medical food automotive and mining industries By presenting state of the art diagnostic solutions and discussing important industrial issues the book offers a valuable resource to both academics and professionals as well as a bridge to facilitate communication and collaboration between the two groups

Artificial Intelligence Applications and Innovations Lazaros S. Iliadis, Ilias Maglogiannis, Harris Papadopoulos, Nikolaos Karatzas, Spyros Sioutas, 2012-09-22 This book constitutes the refereed proceedings of the Workshops held at the 8th IFIP WG 12.5 International Conference on Artificial Intelligence Applications

and Innovations AIAI 2012 in Halkidiki Greece in September 2012 The book includes a total of 66 interesting and innovative research papers from the following 8 workshops the Second Artificial Intelligence Applications in Biomedicine Workshop AIAB 2012 the First AI in Education Workshop Innovations and Applications AIeIA 2012 the Second International Workshop on Computational Intelligence in Software Engineering CISE 2012 the First Conformal Prediction and Its Applications Workshop COPA 2012 the First Intelligent Innovative Ways for Video to Video Communication in Modern Smart Cities Workshop IIVC 2012 the Third Intelligent Systems for Quality of Life Information Services Workshop ISQL 2012 the First Mining Humanistic Data Workshop MHDW 2012 and the First Workshop on Algorithms for Data and Text Mining in Bioinformatics WADTMB 2012 **New Trends in Engineering Research 2024** Nenad Mitrovic, Goran

Mladenovic, Aleksandra Mitrovic, 2025-01-07 This book is a collection of high quality peer reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies CNNTech2024 held in Belgrade Serbia from 24 June to 27 June 2024 The book discusses various industrial engineering and scientific applications of engineering techniques Researchers from academia and industry present their original work and exchange ideas experiences information techniques applications and innovations in mechanical engineering materials science chemical and process engineering experimental techniques numerical methods and new technologies **Choose the right A levels** Ray Le Tarouilly, 2017-11-03 Selecting the right A levels is more important than ever in helping you shape your future path whether through securing a place at your ideal university or starting out on your chosen career But with such a huge variety of subject options and combinations on offer where do you begin and indeed what are the right choices In truth what's right is what's best for you and any decisions you make about your future should therefore be informed and personal to you to ensure you find the perfect match to suit your own individual interests skills and learning style Giving you all the knowledge you need at your fingertips to support you in making these important decisions Choose the Right A levels is your one stop source of practical information answering key questions such as What does the course outline look like and how is the subject assessed What key skills does the subject draw on and develop Which subjects are preferred or required for certain degree courses and careers What will I need at GCSE to study the subject and how does the subject compare to GCSE What subjects combine well together This comprehensive and impartial guide also features comparative data on national pass rates for each subject and insightful student case studies on what did and didn't work well for others Written by an expert Careers Adviser and laid out in a simple format for ease of use this accessible guide is your essential aid to navigating the wide range of subject options available and making the best choices for you and your future

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