

electrical module three past papers

SECTION A: MICROPROCESSOR SYSTEMS

Answer any **THREE** questions from this section.

1. (a) Draw a labelled block diagram of a microprocessor and state the function of each block. (6 marks)
- (b) Explain the function of each of the following microprocessor registers: (6 marks)
- (i) status register;
 - (ii) memory address register;
 - (iii) index register.
- (c) Table 1 shows Intel 8085 program listing. For each instruction, state: (8 marks)
- (i) addressing mode;
 - (ii) size of the machine code, in bytes.

Table 1

LXI H, 2040H	→
ADD B	→
STAX D	→
INX D	→

2. (a) Define each of the following types of interrupts: (2 marks)
- (i) maskable;
 - (ii) polled.
- (b) For a direct memory access controller (DMAC):
- (i) State two pins necessary for requesting and relinquishing the bus from the CPU;
 - (ii) Explain the functions of each of the following registers:
 - (I) command register;
 - (II) mode register.
- (6 marks)

- (c) (i) Write an assembly language program segment to perform the following:
- read data from port A (81H) and port C (83H) of a programmable Input/output (PIO) to form a 16-bit number;
 - store the 16-bit data into memory locations 1800H and 1801H;
 - end.
- (ii) A CPU clock frequency is 1 MHz. Determine the number to be loaded into the internal timer register to achieve a single wave pulse every 50 μ S.
- (iii) With the aid of a labelled diagram, show how a seven segment LED display is interfaced with the PIO's port A. (12 marks)

3. (a) Write assembly language program segments to perform each of the following:

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Ying-Ying Zheng



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Monthly Catalogue, United States Public Documents ,1985-07 Education Management, Education Theory and Education Application Yuanzhi Wang,2011-10-09 This volume includes extended and revised versions of a set of selected papers from the 2011 2nd International Conference on Education and Educational Technology EET 2011 held in Chengdu China October 1 2 2011 The mission of EET 2011 Volume 2 is to provide a forum for researchers educators engineers and government officials involved in the general areas of education management education theory and education application to disseminate their latest research results and exchange views on the future research directions of these fields 133 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor Prof Yuanzhi Wang from Intelligent Information Technology Application Research Association Hong Kong The conference will bring together leading researchers engineers and scientists in the domain of interest We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the education management education theory and education application **A Collection of Technical Papers** ,1966 **Monthly Catalog of United States Government Publications** ,1995 *SAE Technical Paper Series* ,1968 Online version Technical papers portion of the SAE Digital Library references thousands of SAE Technical Papers covering the latest advances and research in all areas of mobility engineering including ground vehicle aerospace off highway and manufacturing technology Sample coverage includes fuels and lubricants emissions electronics brakes restraint systems noise engines materials lighting and more Your SAE service includes detailed summaries complete documents in PDF plus document storage and maintenance **Reports and Documents** United States. Congress, *Annual Department of Defense Bibliography of Logistics Studies and Related Documents* United States. Defense Logistics Studies Information Exchange,1975 **Resources in Education** ,1995 Papers Presented at the AIAA/ASME/SAE/ASEE 25th Joint Propulsion Conference ,1989 **Decisions and Orders of the National Labor Relations Board** United States. National Labor Relations Board,1981 **Daily Graphic** Elvis Aryeh,2002-05-14 **Frontiers of Manufacturing and Design Science** Ran Chen,2010-12-06 Selected peer reviewed papers from the 2010 International Conference on Frontiers of Manufacturing and Design Science ICFMD 2010 Chongqing China December 11 12 2010 **American Foreign Policy, Current Documents** ,1965 **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,2001 **Paper** ,2000 **Film & Video Finder** ,1997 **Ambient Intelligence** David Keyson,Mary Lou Maher,Norbert Streitz,Adrian David Cheok,Juan Carlos Augusto,Reiner Wichert,Gwenn Englebiennne,Hamid Aghajan,Ben Kröse,2011-11-11 This book constitutes the refereed proceedings of the Second International Joint Conference on Ambient Intelligence Aml 2011 held in Amsterdam The Netherlands in November 2011 The 58 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics such as

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Table of Contents Papers On Craft Electrical Module 1

1. Understanding the eBook Papers On Craft Electrical Module 1
 - The Rise of Digital Reading Papers On Craft Electrical Module 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Papers On Craft Electrical Module 1
 - 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 Papers On Craft Electrical Module 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Papers On Craft Electrical Module 1
 - Personalized Recommendations
 - Papers On Craft Electrical Module 1 User Reviews and Ratings
 - Papers On Craft Electrical Module 1 and Bestseller Lists
5. Accessing Papers On Craft Electrical Module 1 Free and Paid eBooks
 - Papers On Craft Electrical Module 1 Public Domain eBooks
 - Papers On Craft Electrical Module 1 eBook Subscription Services
 - Papers On Craft Electrical Module 1 Budget-Friendly Options
6. Navigating Papers On Craft Electrical Module 1 eBook Formats

- ePub, PDF, MOBI, and More
- Papers On Craft Electrical Module 1 Compatibility with Devices
- Papers On Craft Electrical Module 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Papers On Craft Electrical Module 1
 - Highlighting and Note-Taking Papers On Craft Electrical Module 1
 - Interactive Elements Papers On Craft Electrical Module 1
- 8. Staying Engaged with Papers On Craft Electrical Module 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Papers On Craft Electrical Module 1
- 9. Balancing eBooks and Physical Books Papers On Craft Electrical Module 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Papers On Craft Electrical Module 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Papers On Craft Electrical Module 1
 - Setting Reading Goals Papers On Craft Electrical Module 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Papers On Craft Electrical Module 1
 - Fact-Checking eBook Content of Papers On Craft Electrical Module 1
 - 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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