

Time Allowed: 03:00 hrs

Read the following instructions carefully before attempting the question paper.

1. This question paper is divided into two parts A and B.
2. Part A contains 10 questions of 2 marks each. All questions are compulsory.
3. Part B contains 5 questions of 10 marks each. In each question attempt either question (a) or (b), in case both (a) and (b) questions are attempted for any question then only the first attempted question will be evaluated.
4. Answer all questions in serial order.
5. Do not write or mark anything on the question paper except your registration no. on the designated space.

Max. Marks: 70

PART A

- Q1 a) Explain all the buses used in 8085 microprocessor? [2 Marks]
- b) Differentiate between Microprocessor and microcontroller. [2 Marks]
- c) Explain the LCD control pins. [2 Marks]
- d) What is IDE? Explain. [2 Marks]
- e) What is the function of Rs pin in LCD? [2 Marks]
- f) WAP in Arduino to control the intensity of LED automatically high to low without using any sensor. [2 Marks]
- g) Explain data types in Arduino. [2 Marks]
- h) Draw only Harvard Architecture. [2 Marks]
- i) WAP in Arduino to blink the LED connected at Pin 13 after 5 seconds. [2 Marks]
- j) Explain the working of HOLD and HLDA pin in 8085. [2 Marks]

PART B

- Q2 a) WAP in Arduino to interface ultrasonic and display the distance on LCD. If the distance is less than 5cm switch ON the buzzer connected at pin 13. [10 Marks]
- b) (i) Explain the features of Atmega328P in detail. [5 Marks]
- (ii) WAP to control the intensity of LED connected at pin-11 of Arduino. The duty cycle will be sent to Arduino using the Serial monitor. [5 Marks]
- Q3 a) Write pin details of LCD. [10 Marks]
- b) (i) WAP in Arduino to sweep the servo motor w.r.t the movement of the potentiometer. [5 Marks]
- (ii) WAP in Arduino to convert the value stored in variable 'X' to HEX, OCT, ASCII, BYTE and decimal. After converting show the value on the serial monitor. [5 Marks]
- Q4 a) WAP in Arduino to make up-counter using IR sensor. If a person enters the room then the count should increase by one and if the person moves out the counter should decrement by one and display the count on the serial monitor. [10 Marks]
- b) (i) Explain L293D in detail. [5 Marks]
- (ii) Explain some functions of SPI used in Arduino. [5 Marks]
- Q5 a) Design LFR using Arduino, IR, two DC motors and L293D. [10 Marks]
- b) (i) WAP in 8051 to convert the analog value to digital and show it on Port-2. [5 Marks]
- (ii) Write the steps to configure Bluetooth HC-05. [5 Marks]
- Q6 a) Explain in detail the addressing modes of 8051 with examples. [10 Marks]
- b) (i) Interface six LED's with Arduino using Charlieplexing concept. [5 Marks]
- (ii) Differentiate between C and Embedded C. [5 Marks]

Microprocessor And Microcontroller Question Paper 2012

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Microprocessor And Microcontroller Question Paper 2012:

Microprocessor and Microcontroller Saurabh Chaudhury, Risha Mal, 2025-06-01 **Microprocessors and Microcontrollers** Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller The book is divided into two parts The first part focuses on 8085 microprocessor It teaches you the 8085 architecture instruction set Assembly Language Programming ALP interfacing 8085 with support chips memory and peripheral ICs 8251 8253 8255 8259 8237 and 8279 It also explains the interfacing of 8085 with data converters ADC and DAC and introduces a temperature control system and data acquisition system design The second part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 with ALP and C and interfacing 8051 with external memory It also explains timers counters serial port and interrupts of 8051 and their programming in ALP and C It also covers the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors servo motors and introduces the washing machine control system design **2025-26 RRB JE Stage-II Electronics & Allied Engineering Solved Papers and Practice Book** YCT Expert Team , 2025 26 RRB JE Stage II Electronics Allied Engineering Solved Papers and Practice Book 576 1095 E This book contains 128 sets of the previous year solved papers with 5042 objective questions **2025-26 RRB JE Electronics & Allied Engineering Study Material 496 995 E.** YCT Expert Team , 2025 26 RRB JE Electronics Allied Engineering Study Material 496 995 E This book contains 10 topics of Electronics Engineering and Computer Science Electronics & Communication Engineering Vol.-2 YCT Expert Team , All India State PSC AE PSU Electronics Communication Engineering Vol 2 Chapter wise Solved Papers **Book Review Index** ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index *Microprocessor and Microcontroller Interview Questions:* Anita Gehlot Rajesh Singh, 2020-01-01 Crack the Microprocessor and Microcontroller Interview Description Book gives you a complete idea about the Microcontroller and Microprocessor It starts from a very basic concept like a number system then explains the digital circuit This book is a complete set of interview questions and answers with plenty of screenshots Book takes you on a journey to Microprocessor 8085 Peripheral Devices and Interfacing AVR ATmega32 Interfacing of Input Output Device Book also covers the descriptive questions multiple choice questions along with answers which are asked during an interview Key features An ample number of diagrams are used to illustrate the subject matter for easy understanding Set of review questions with answers are added at the end for better understanding Includes basic to advanced interview questions on 8085 8086 89C51 PIC and AVR interfacing of input output devices It will help to enhance the programming skills of the reader What will you learn Basics to an advanced interview question for microprocessor 8085 8086 and microcontroller 89C51 PIC and AVR Question on interfacing of input output devices Who this book is for Engineering students pursuing a course in electrical and electronics electronics and communication computer

science and information technology who wish to learn about Microprocessor Microcontroller and crack an interview Table of Contents 1 Number Systems 2 Digital Circuit 3 Microprocessor 8085 4 Peripheral Devices and Interfacing 5 AVR ATmega32 6 Interfacing of Input Output Device 7 Exercise 8 Descriptive Type Questions 9 Multiple Choice Questions 2012 13th International Workshop on Microprocessor Test and Verification IEEE Staff,2012-12-10 **Microprocessors and**

Interfacing Techniques Swapneel Chandrakant Mhatre,2014-01-04 The book is written as per the syllabus of the subject Microprocessors and Interfacing Techniques for S E Computer Engineering Semester II of University of Pune It focuses on the three main parts in the study of microprocessors the architecture the programming and the system design The 8086 microprocessor is described in detail along with glimpses of 8088 80186 and 80188 microprocessors The various peripheral controllers for 8086 88 are also discussed Other topics that are related to the syllabus but not explicitly mentioned are included in the appendices Key Features Programs are given and the related theory is discussed within the same section thereby maintaining a smooth flow and also eliminating the need for a separate section on the practical experiments for the subject of Microprocessors and Interfacing Laboratory Both DOS based programs as well as kit programs are given Algorithms and flowcharts are given before DOS based programs for easy understanding of the program logic

Microprocessors and Microcontrollers, 3rd Edition R.S Kaler,2019-01-05 It is a complete textbook for anyone interested in all aspects of the microprocessors and microcontrollers family This book is based upon Microprocessor 8085 8086 and Microcontroller 8051 All other related microprocessors and microcontrollers like 80186 80286 80386 Pentium 4 ARM and PIC are also discussed All chapters are described with fundamental objectives A review of important terms and concepts is also given at the end of each chapter that reinforces the idea and material presented Each chapter also has questions and problems Broadly the book deals with Evolution of microprocessor digital concepts number systems and their conversion logic gates and combinational logic and circuits complements multiplexers demultiplexers Flip Flops counters registers analog digital conversion counters registers analog digital conversion Microprocessor 8085 and 8086 architecture pin configuration instructions set stack and subroutines addressing modes interrupts machine cycles and bus timings control signals peripheral I O instructions memory segmentation register minimum mode 8086 system and timings assembler directives and operators Interfacing devices data transfer schemes interfacing and I O devices programmable peripheral interface PPI programmable keyboard display interface Intel 8279 centronix parallel communication RS 232C UART programmable interval timer 8253 8254 8257 and 8259 Microprocessor applications seven segment LED display microprocessor based traffic control data acquisition system analog to digital A D converter traffic signal controller digital to analog converter Microprocessor 80XXX architecture pin configuration instructions set addressing modes interrupts multitasking and comparison with different microprocessors Microcontroller 8051 MCS 51 family overview architecture basic registers counters and timers timer counter interrupts serial data input output addressing modes push and pop opcodes

instructions set arithmetic operations programming and testing the design real time operating systems RTOS ARM AVR and PIC microcontrollers architecture programming model registers and ags exception and interrupt modes instructions set PIC microcontroller family PIC16F84 microcontroller EEPROM data memory PIC16Cxx microcontroller family Embedded systems programming using Keil software instructions set for 8085 8086 and 8051 Microprocessor and Microcontroller Atul P. Godse, Deepali A. Godse, 2010 *Microprocessor and Microcontroller Fundamentals* William Kleitz, 1998 Short concise and easily accessible this book uses the 8085A microprocessor and 8051 microcontroller to explain the fundamentals of microprocessor architecture programming and hardware It features only practical workable designs so that readers can develop a complete understanding of the application with no frustrating gaps in the explanations An abundance of real life hardware software and schematic interpretation problems prepare readers to troubleshoot and trace signals through situations they will likely encounter on the job Advanced Microprocessor & Microcontrollers S. K. Venkata Ram, 2004 *Microprocessors & Microcontrollers* Nagoorkani, 2012 **Microcontroller Technology** Peter Spasov, 2004 CD ROM contains source code and a special demo version of the THRSim11 simulator *2012 13th International Workshop on Microprocessor Test and Verification (MTV 2012)*, 2012 **The Essential PIC18@ Microcontroller** Sid Katzen, 2010-07-05 Microprocessors are the key component of the infrastructure of our 21st century electronic and digital information based society More than four billion are sold each year for use in intelligent electronic devices ranging from smart egg timer through to aircraft management systems Most of these processor devices appear in the form of highly integrated microcontrollers which comprize a core microprocessor together with memory and analog digital peripheral ports By using simple cores these single chip computers are the cost and size effective means of adding the brains to previous dumb widgets such as the credit card Using the same winning format as the successful Springer guide *The Quintessential PIC Microcontroller* this down to earth new textbook guide has been completely rewritten based on the more powerful PIC18 enhanced range Microchip MCU family Throughout the book commercial hardware and software products are used to illustrate the material as readers are provided real world in depth guidance on the design construction and programming of small embedded microcontroller based systems Suitable for stand alone usage the text does not require a prerequisite deep understanding of digital systems Topics and features uses an in depth bottom up approach to the topic of microcontroller design using the Microchip enhanced range PIC18 microcontroller family as the exemplar includes fully worked examples and self assessment questions with additional support material available on an associated website provides a standalone module on foundation topics in digital logic and computer architecture for microcontroller engineering discusses the hardware aspects of interfacing and interrupt handling with an emphasis on the integration of hardware and software covers parallel and serial input output timing analog and EEPROM data handling techniques presents a practical build and program case study as well as illustrating simple testing strategies This useful text reference book will be of great value to industrial

engineers hobbyists and people in academia Students of Electronic Engineering and Computer Science at both undergraduate and postgraduate level will also find this an ideal textbook with many helpful learning tools Dr Sid Katzen is Associate to the School of Engineering University of Ulster at Jordanstown Northern Ireland Microcontrollers ,2004

Microprocessor, Microcontroller and Peripheral Data Microprocessor Products Group, Microcontroller Division,1988 Vol 1 M68HC11 M6801 M6805 M6804 families

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