Scheme – I

Sample Question Paper

Program Name	: **Electronics Engineering Programme Group**	
Program Code	: **DE/EJ/ET/EN/EX/EQ/IS/IC/IE**	**22426**
Semester	: **Fourth**	
Course Title	: **Microcontroller and Applications**	
Marks	: **70**	**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

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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 2024-25 For All Competitive Examinations Computer Chapter-wise Solved Papers YCT Expert Team , 2024 25 For All Competitive Examinations Computer Chapter wise Solved Papers 592 1095 E This book contains 1198 sets of solved papers and 8929 objective type questions with detailed analytical explanation and certified answer key **Digest of Technical Papers** ,1994

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coding practices for flash memory Oscillators clocks low power modes and timers Digital and analog communication ports and protocols Schematics and assembly instructions for 12 projects   In-vehicle Software & Hardware Systems ,2006

IEEE Transactions on Circuits and Systems ,2006   **Industrial Instrumentation and Control Systems II** Prasad Yarlagadda,Yun Hae Kim,2013-07-15 Selected peer reviewed papers from the 2013 2nd International Conference on Measurement Instrumentation and Automation ICMIA 2013 April 23 24 2013 Guilin China   *Proceedings of the ... International Electric Vehicle Symposium* ,1992   *Proceedings* ,2002 This text contains information on database and information systems presented at the 5th IEEE international symposium on Object Oriented Real Time Distributed Computing ISORC 2002   **Proceedings of the Fourth Annual Portable by Design Conference** ,1997   **Parallel Problem Solving from Nature--PPSN ...** ,1996   *ACM SIGPLAN Notices* ,2006-07   *Annual Index/abstracts of SAE Technical Papers* ,2007   **Proceedings of the ASP-DAC '97, Asia and South Pacific Design Automation Conference 1997, January 28-31, 1997, Makuhari Messe, Nippon Convention Center, Chiba, Japan** IEEE Circuits and Systems Society,1996 The Asia and South Pacific conference on design automation is the second in a series of biennial international conferences It aims to provide the CAD DA community with the opportunity to present ideas and concepts on upperstream design as well as methodologies of downstream design   *Proceedings of Frontiers in Education 1996* IEEE, Education Society Staff,Ieee Education Society,1996-11   **WESCON ... Conference Record** ,1995   XIII SBMicro, International Conference on Microelectronics and Packaging, ICMP'98: Technical papers Ivan Jorge Chueiri,Carlos Alberto dos Reis Filho,1998

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