

[4236] - 301

M.Sc. - II

ELECTRONIC SCIENCE
EL3 UT05 : Embedded Systems
 (2008 Pattern) (Sem. - III)

Time : 3 Hours]

/Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw neat diagrams wherever necessary.

Q1) Attempt any two of the following :**[2 × 8 = 16]**

- a) Draw programming model of 8051 showing different registers without their addresses. Explain TCON and PSW registers of 8051.
- b) State the features of I²C bus and explain with waveforms following conditions.
 - i) Start
 - ii) Stop
 - iii) ACK
 Explain data format used in I²C bus standard.
- c) Write a program in C for single digit decimal calculator for addition and subtraction. Read input from keyboard and display result on LCD. (8051 microcontroller)

Q2) Attempt any two of the following :**[2 × 8 = 16]**

- a) Write function of EA and ALE pins of 8051. Draw and explain the circuit for interfacing of external 8k × 8bit EPROM and 8k × 8bit RAM to 8051 using suitable 3:8 decoder. Show all control lines and memory map.
- b) Draw schematic diagram of 8051 based target board with serial port interface to computer. List the components required to design target board. Explain how you will test crystal and ports. Explain reset circuit used in 8051 based system.
- c) Draw circuit diagram to interface two stepper motors to port 1 of 8051. Write C program to rotate stepper motors one in clockwise and other in anticlockwise direction continuously.

P.T.O.

Embedded Systems Question Paper

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Embedded Systems Question Paper:

Signal Processing, Telecommunication and Embedded Systems: Automation and Sustainability Applications

Vikrant Bhateja, Wendy Flores-Fuentes, Anagha Bhattacharya, P. Satish Rama Chowdary, 2025-11-01 The book discusses the latest developments and outlines future trends in the fields of microelectronics electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2024 organized by Department of Electronics and Communication Engineering National Institute of Technology Mizoram India during 19 20 December 2024. The book is divided into four volumes and it covers papers written by scientists research scholars and practitioners from leading universities engineering colleges and R D institutes from all over the world and shares the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Microprocessor and Microcontroller Saurabh Chaudhury, Risha Mal, 2025-06-01 Advances in Systems, Control and Automations

Akash Kumar Bhoi, Pradeep Kumar Mallick, Valentina Emilia Balas, Bhabani Shankar

Prasad Mishra, 2021-03-19 This book comprises select proceedings of the international conference ETAEERE 2020. This volume covers latest research in advanced approaches in automation control based devices and adaptive learning mechanisms. The contents discuss the complex operations and behaviors of different systems or machines in different environments. Some of the areas covered include control of linear and nonlinear systems intelligent systems stochastic control knowledge based systems applications fault diagnosis and tolerant control and real time control applications. The contents of this volume can be useful for researchers as well as professionals working in control and automation.

Basic Electronics Rakesh Kumar Garg, Ashish Dixit, Pavan Yadav, 2008 Real-time Systems Education, 1996 **Proceedings,**

11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems Vaclav

Dvorak, Miroslav Sveda, 2004 **Embedded Systems Design**, 2009 **Digest of Technical Papers**, 1999 Annual

Index/abstracts of SAE Technical Papers, 2006 **Microcomputers--usage, Methods, and Structures** Harald

Schumny, John Mølgaard, 1987 **Proceedings of the Fifteenth Hawaii International Conference on System Sciences**

1982, 1982 Real-time Signal and Image Processing Phillip A. Laplante, 2000 An introduction to intermediate readings in real time image and signal processing. It covers issues and challenges hardware support algorithms software languages and systems and applications and case studies.

Knowledge, Information, and Medical Education Jan Hendrik

Bemmel, Jana Zvárová, 1991 In these proceedings the contribution of computers to medical education in undergraduate curriculum and at the postgraduate level is explored by researchers from 18 countries. Examined are such topics as the role of informatics in the medical curriculum the state of the art in computer use in the medical curriculum computer assisted instruction and learning computer use for modelling and simulation assessment and testing of medical knowledge training in computer assisted medical decision making and problem solving and postgraduate training programs in medical informatics.

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