

Sem-IV

Con. 10-16.

S.Y.Bsc - (I.T.)

Embedded Systems
(3 Hours)

Oct
2016

IP-4334

[Total Marks : 100]

1. Attempt following questions :—
 - (a) Write a short note on watchdog timer. 5
 - (b) Distinguish between microprocessor and microcontroller. 5
2. Attempt any three questions from the following :—
 - (a) Distinguish between RISC and CISC. 5
 - (b) Explain I2C bus in embedded system. 5
 - (c) What are COTS in embedded system ? 5
 - (d) Explain the classification of embedded systems on the basis of complexity. 5
3. Attempt any three questions from the following :—
 - (a) Explain the role of embedded system in automotive domain with an example. 5
 - (b) Explain different automotive communication buses in embedded systems. 5
 - (c) Explain any three characteristics of embedded systems. 5
 - (d) Explain the following operational quality attributes of embedded systems. 5
 - (i) Security
 - (ii) Throughput
4. Attempt any three questions from the following :—
 - (a) Explain the role of an infinite loop? Illustrate with an example. 5
 - (b) Explain the concept of device programmer in embedded systems. 5
 - (c) Explain linking process in embedded systems. 5
 - (d) Write a short note on compiler and cross compiler. 5
5. Attempt any three questions from the following :—
 - (a) What do you mean by memory testing ? Explain data bus test in detail. 5
 - (b) Write a short note on CRC in embedded systems. 5
 - (c) Write a short note on direct memory access. 5
 - (d) Differentiate between SRAM and DRAM. 5
6. Attempt any three questions from the following :—
 - (a) Explain following scheduling algorithms. 5
 - (i) Shortest job first
 - (ii) priority based
 - (b) Enlist steps to develop device driver in embedded systems. 5
 - (c) Explain real-time characteristics of embedded operating systems. 5
 - (d) Write a short note on mutex in embedded operating system. 5
7. Attempt any three questions from the following :—
 - (a) Write a short note on emulator. 5
 - (b) What are the objectives of Embedded product Development Life Cycle ? 5
 - (c) Write short notes on disassembler and decompiler. 5
 - (d) What are the different phases of Embedded product Development Life Cycle ? 5

Embedded Systems Question Papers

Anil Kumar Maini



Embedded Systems Question Papers:

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

Operating System Question Bank with Answers: A Comprehensive Handbook S. R.

Jena, Suman Kumar, 2024-11-05 The dynamic field of computer science is ever evolving and with it the need for comprehensive and structured learning materials becomes increasingly essential As educators deeply engaged in nurturing the academic growth of our students at NIMS University Jaipur Rajasthan we identified the necessity for a specialized resource that not only aids learners in understanding core concepts but also challenges them to think critically apply their knowledge and analyze complex problems This recognition inspired us to create Operating System Question Bank with Answers A Comprehensive Handbook This handbook is meticulously designed to align with Bloom s Taxonomy a framework that emphasizes the importance of higher order thinking skills By structuring our questions and answers according to Bloom s hierarchy we aim to provide a balanced approach that covers everything from basic recall and understanding to more complex tasks such as analysis evaluation and synthesis This structure ensures that students develop a deeper understanding of Operating Systems and are better prepared for academic evaluations competitive exams and professional applications The content in this handbook has been carefully curated and refined through our extensive experience in teaching the Operating Systems subject at NIMS University Each question has been selected and crafted to reflect key concepts and applications relevant to the field accompanied by detailed well explained answers This format not only aids in self assessment but also serves as a strong guide for instructors and students alike We believe this handbook will prove to be an invaluable resource for students educators and professionals looking to reinforce their knowledge of Operating Systems It is our hope that through this work learners will find a supportive tool that enriches their educational journey stimulates their critical thinking and deepens their understanding of one of the foundational subjects in computer science We express our sincere gratitude to NIMS University for providing an environment that fosters learning and teaching excellence It is our students enthusiasm and the academic spirit of the university that motivated us to compile this question bank We hope this contribution aids many in achieving their academic and professional goals

Objective Question Bank of Computer Awareness for General

Competitions Arihant Experts, 2018-04-20 In a technology driven world basic knowledge and awareness about computers is a must if we wish to lead a successful personal and professional life Today Computer Awareness is considered as an important dimension in most of the competitive examinations like SSC Bank PO Clerk IT Officer UPSC other State Level PSCs etc Objective questions covering Computer Awareness are asked in a number of competitive exams so the present book which will act as an Objective Question Bank for Computer Awareness has been prepared keeping in mind the importance of the subject This book has been divided into 22 chapters covering all the sections of Computer Awareness like Introduction to Computer Computer Organisation Input Output Devices Memory Software MS Office Database Internet Networking Computer Security Digital Electronics etc The chapters in the book contain more than 75 tables which will help in better summarization of the important information With a collection of more than 3500 objective questions the content covered in the book simplifies the complexities of some of the topics so that the non computer students feel no difficulty while studying various concepts covered under Computer Awareness section This book contains the most streamlined collection of objective questions including questions asked in competitive examinations upto 2014 As the book thoroughly covers the Computer Awareness section asked in a number of competitive examinations it for sure will work as a preparation booster for various competitive examinations like UPSC State Level PSCs Examinations SSC Bank PO Clerk IT Officer and other general competitive recruitment examinations

[2000 MCQs] General Computer Knowledge Question Bank Mocktime Publication, 2000 MCQs General Computer Knowledge Question Bank

Advances in Micro-Electronics, Embedded Systems and IoT Vikrant Bhateja, Jaume Anguera, Anumoy Ghosh, P. Satish Rama Chowdary, 2025-10-16 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

CBSE Class 12 - Electronics and Hardware Question Bank Mocktime Publication, 101-01-01 CBSE 12 Question Bank Electronics and Hardware

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

Agile Processes in Software Engineering and Extreme Programming Juan Garbajosa,Xiaofeng Wang,Ademar Aguiar,2018-05-16 This open access book constitutes the proceedings of the 19th International Conference on Agile Software Development XP 2018 held in Porto Portugal in May 2018 XP is the premier agile software development conference combining research and practice and XP 2018 provided a playful and informal environment to learn and trigger discussions around its main theme make inspect adapt The 21 papers presented in this volume were carefully reviewed and selected from 62 submissions They were organized in topical sections named agile requirements agile testing agile transformation scaling agile human centric agile and continuous experimentation

Oswaal CBSE Chapterwise & Topicwise Question Bank Class 11 Biology Book (For 2023 Exam) Oswaal Editorial Board,2022-08-20 KEY HIGHLIGHTS OF CBSE QUESTION BANK CLASS 11 Oswaal CBSE Question Bank Class 11 Biology 2022 23 are based on latest full syllabus The CBSE Question Bank Class 11 Biology 2022 23 Includes Term 1 Exam paper 2021 Term II CBSE Sample paper Latest Topper Answers The CBSE Books Class 11 2022 23 comprises Revision Notes Chapter wise Topic wise The CBSE Question Bank Class 11 Biology 2022 23 includes Exam Questions Includes Previous Years Board Examination questions 2013 2021 It includes CBSE Marking Scheme Answers Previous Years Board Marking scheme answers 2013 2020 The CBSE Books Class 11 2022 23 also includes New Typology of Questions MCQs assertion reason VSA SA LA including case based questions The CBSE Question Bank Class 11 Biology 2022 23 includes Toppers Answers Latest Toppers handwritten answers sheets Exam Oriented Prep Tools Commonly Made Errors Answering Tips to avoid errors and score improvement Mind Maps for quick learning Concept Videos for blended learning The CBSE Question Bank Class 11 Biology 2022 23 includes Academically Important AI look out for highly expected questions for the upcoming exams Oswaal Books has been awarded as India s most significant consumer voted award for product innovation and added to the glorious list of Product of the Year 2022 Winners As Per The Nation Wide Survey Done By Nielsen

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Embedded Systems Question Papers Introduction

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