

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

A Gutmann



Embedded Systems Question Papers:

Embedded Systems Question Papers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Embedded Systems Question Papers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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Table of Contents Embedded Systems Question Papers

1. Understanding the eBook Embedded Systems Question Papers
 - The Rise of Digital Reading Embedded Systems Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Embedded Systems Question Papers
 - 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 Embedded Systems Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Embedded Systems Question Papers
 - Personalized Recommendations
 - Embedded Systems Question Papers User Reviews and Ratings
 - Embedded Systems Question Papers and Bestseller Lists
5. Accessing Embedded Systems Question Papers Free and Paid eBooks

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