

QUESTION BANK –I

Embedded System Design-20ECE62

MODULE 1(Introduction to Embedded System)

1. What is an Embedded System? Explain the different applications of Embedded systems (Ht: Application Questions may be asked from different domains-(Ex. Consumer Electronics, Household appliances etc...)
2. Identify the differences between General Purpose Computing system and Embedded System
3. Explain the classifications of embedded based on (i) Generation (ii) Complexity and Performance
4. Explain the various purposes of embedded systems with examples
5. Explain with an example the innovative bonding of lifestyle with Embedded technology

(Typical Embedded System)

1. Explain the components of typical Embedded System in detail
2. Differentiate between
 - a. Microprocessors and Microcontrollers
 - b. RISC and CISC processors
 - c. Harvard and Von Neumann architecture
 - d. Big Endian and Little Endian
 - e. ASIC and ASPP
 - f. SRAM and DRAM
3. Explain the role of the following core units in Embedded System design
 - a. Application Specific Integrated Circuits (ASIC)
 - b. Application Specific Standard Products (ASSP)
 - c. Programmable Logic Devices (PLD)
 - d. Complex Programmable Logic Devices (CPLD)
 - e. Programmable Array Logic (PAL)
 - f. Programmable Logic Controller (PLC)
 - g. Programmable User Defined Logic (PUDL)
 - h. Programmable Read Only Memory (PROM)
 - i. Programmable Read Only Memory (PROM)
 - j. Programmable Read Only Memory (PROM)
 - k. Programmable Read Only Memory (PROM)
 - l. Programmable Read Only Memory (PROM)
 - m. Programmable Read Only Memory (PROM)
 - n. Programmable Read Only Memory (PROM)
 - o. Programmable Read Only Memory (PROM)
 - p. Programmable Read Only Memory (PROM)
 - q. Programmable Read Only Memory (PROM)
 - r. Programmable Read Only Memory (PROM)
 - s. Programmable Read Only Memory (PROM)
 - t. Programmable Read Only Memory (PROM)
 - u. Programmable Read Only Memory (PROM)
 - v. Programmable Read Only Memory (PROM)
 - w. Programmable Read Only Memory (PROM)
 - x. Programmable Read Only Memory (PROM)
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Answers Of Embedded Systems Question Bank

**Vikrant Bhateja, Wendy Flores-
Fuentes, Anagha Bhattacharya, P.
Satish Rama Chowdary**

Answers Of Embedded Systems Question Bank:

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 the 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.

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