

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

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Adopting the Song of Term: An Psychological Symphony within **Embedded Systems Question Papers**

In a world taken by monitors and the ceaseless chatter of immediate conversation, the melodic beauty and psychological symphony created by the written word usually fade in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. However, situated within the pages of **Embedded Systems Question Papers** a marvelous fictional treasure overflowing with fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this charming masterpiece conducts readers on a mental trip, well unraveling the hidden melodies and profound impact resonating within each cautiously constructed phrase. Within the depths of this emotional examination, we can explore the book is key harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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