

M.Tech. Degree Examination, June/July 2011
Real Time Operating Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1.
 - a. With diagrams explain Hard real time, Isochronal soft real-time and Soft isochronal service utilities. (08 Marks)
 - b. Differentiate between preemptive and non-preemptive scheduling. (06 Marks)
 - c. Explain thread safe reentrant function. (06 Marks)
2.
 - a. Explain RM scheduling. Calculate the "utility of the CPU resource achievable" for the following system of tasks.
 i) $T_1 = 2$, $T_2 = 5$, $C_1 = 1$, $C_2 = 1$
 ii) $T_1 = 2$, $T_2 = 5$, $C_1 = 1$, $C_2 = 2$
 Write scheduling diagram for each of the above. (08 Marks)
 - b. With reference to RM LUB differentiate between i) sufficient ii) necessary and sufficient conditions for feasibility tests. (06 Marks)
 - c. With examples differentiate between deadline monotonic and earliest deadline first policies. (06 Marks)
3.
 - a. Encode the following data using ECC/Hamming coding.
 "1 1 0 0 0 1 0 0"
 Prepare the table of coding. (08 Marks)
 - b. Explain a simple pipeline with an example of stage overlap depth = 4. (06 Marks)
 - c. With diagram explain the three types of cache organizations. (06 Marks)
4.
 - a. Write scheduling diagram for the following tasks to illustrate "DM policy succeeds when RM would fail".
 $T_1 = 2$; $C_1 = 1$; $D_1 = 2$
 $T_2 = 5$; $C_2 = 1$; $D_2 = 3$
 $T_3 = 2$; $C_3 = 1$; $D_3 = 7$
 $T_4 = 13$; $C_4 = 2$; $D_4 = 15$ (08 Marks)
 - b. Explain the following :
 i) Deadlock ii) Critical section iii) Priority inversion. (06 Marks)
 - c. Explain availability and quality of service. (06 Marks)
5.
 - a. With a block diagram, explain different subsystems for stereo-vision tracking system. (08 Marks)
 - b. Explain boot code and device drivers. (06 Marks)
 - c. Explain binary and mutex semaphores. (06 Marks)
6.
 - a. What are exceptions, assert and single step debugging? How are they used? (08 Marks)
 - b. Differentiate between hardware and software breakpoints. (06 Marks)
 - c. Explain test access ports and trace ports. (06 Marks)
7.
 - a. Explain reliability of dual string cross-strapped subsystem interconnection. (08 Marks)
 - b. With the help of a block diagram, explain low-end PIC micro MCU programmer. (06 Marks)
 - c. Write a note on PIC 17CXX programming. (06 Marks)
8.
 - a. Write a note on real time operating system. (06 Marks)
 - b. Devise a strategy to derive the RM CUB for any given set of services S for which each services S_i has an arbitrary C_i , T_i for the two cases.
 i) C_i short enough to fit all the releases in T_i . ii) C_i too large to fit last release T_i . (14 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and/or equations written eg. $4 \times 4 = 16$, will be treated as malpractice.

Rto Exam Question Paper

Terry C. Jones



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Table of Contents Rto Exam Question Paper

1. Understanding the eBook Rto Exam Question Paper
 - The Rise of Digital Reading Rto Exam Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Rto Exam Question Paper
 - 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 Rto Exam Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rto Exam Question Paper
 - Personalized Recommendations
 - Rto Exam Question Paper User Reviews and Ratings

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