

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Operating Systems

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is operating system? Explain multiprogramming and time sharing systems. (06 Marks)
- b. Explain dual mode operating in operating system with a neat block diagram. (05 Marks)
- c. What are system calls? Briefly point out its types. (05 Marks)

OR

- 2 a. Explain process states with state transition diagram. Also explain PCB with a neat diagram. (06 Marks)
- b. What is interprocess communication? Explain its types. (05 Marks)
- c. With a neat diagram, explain the concept of virtual machines. (05 Marks)

Module-2

- 3 a. For the process listed below, draw Gantt charts using pre-emptive and non-preemptive priority scheduling algorithm. A larger priority number has a higher priority. Calculate Average Weighing Time and Average turnaround time.

Jobs	Arrival Time	Burst Time	Priority
J ₁	0	6	4
J ₂	3	5	2
J ₃	3	3	6
J ₄	5	5	3

- b. Is CPU scheduling necessary? Discuss the five different scheduling criterias used in the computing scheduling mechanism. (06 Marks)
- c. Explain multithreading models. (05 Marks)

OR

- 4 a. Define semaphores. Explain its usage and implementation. (06 Marks)
- b. Explain Reader-Write problem with semaphore in detail. (05 Marks)
- c. What are monitors? Explain dining Philospher's solution using monitor. (05 Marks)

Module-3

- 5 a. System consists of five jobs (J₁, J₂, J₃, J₄, J₅) and three resources (R₁, R₂, R₃). Resource type R₁ has 10 instances, resource type R₂ has 5 instances and R₃ has 7 instances. The following snapshot of the system has been taken.

Jobs	Allocation			Maximum			Available		
	R ₁	R ₂	R ₃	R ₁	R ₂	R ₃	R ₁	R ₂	R ₃
J ₁	0	1	0	7	5	3	3	3	2
J ₂	2	0	0	3	2	2			
J ₃	3	0	2	9	0	2			
J ₄	2	1	1	2	2	2			
J ₅	0	0	2	4	3	3			

Find need matrix and calculate the safe sequence by using Banker's algorithm. Mention the above system is safe or not safe. (06 Marks)

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Table of Contents Sca2hp Jun 13 Question Paper

1. Understanding the eBook Sca2hp Jun 13 Question Paper
 - The Rise of Digital Reading Sca2hp Jun 13 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Sca2hp Jun 13 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 Sca2hp Jun 13 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sca2hp Jun 13 Question Paper
 - Personalized Recommendations
 - Sca2hp Jun 13 Question Paper User Reviews and Ratings
 - Sca2hp Jun 13 Question Paper and Bestseller Lists

5. Accessing Sca2hp Jun 13 Question Paper Free and Paid eBooks
 - Sca2hp Jun 13 Question Paper Public Domain eBooks
 - Sca2hp Jun 13 Question Paper eBook Subscription Services
 - Sca2hp Jun 13 Question Paper Budget-Friendly Options
6. Navigating Sca2hp Jun 13 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Sca2hp Jun 13 Question Paper Compatibility with Devices
 - Sca2hp Jun 13 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sca2hp Jun 13 Question Paper
 - Highlighting and Note-Taking Sca2hp Jun 13 Question Paper
 - Interactive Elements Sca2hp Jun 13 Question Paper
8. Staying Engaged with Sca2hp Jun 13 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sca2hp Jun 13 Question Paper
9. Balancing eBooks and Physical Books Sca2hp Jun 13 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sca2hp Jun 13 Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sca2hp Jun 13 Question Paper
 - Setting Reading Goals Sca2hp Jun 13 Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sca2hp Jun 13 Question Paper
 - Fact-Checking eBook Content of Sca2hp Jun 13 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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