

Fifth Semester B.E. Degree Examination, Dec.09/Jan.10

Operating Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

1.
 - a. Define an operating system. Discuss its role with user and system viewpoints. (06 Marks)
 - b. Give the features of symmetric and asymmetric multiprocessing systems. (04 Marks)
 - c. Briefly explain the common classes of services provided by the various operating systems for helping the user and for ensuring the efficient operation of the system. (10 Marks)
2.
 - a. With a diagram, explain the different states of a process. (06 Marks)
 - b. Differentiate between long-term and short-term schedulers. (04 Marks)
 - c. Suppose the following jobs arrive for processing at the times indicated. Each job will run the listed amount of time.

Job	1	2	3
Arrival time	0.0	0.4	1.0
Burst time	8	4	1

- i) Give a Gantt chart illustrating the execution of these jobs, using the non pre-emptive FCFS and SJF scheduling algorithms.
 - ii) What is turn around time and waiting time of each job for the above algorithms?
 - iii) Compute average turn around time if CPU is left idle for the first 1 unit and then SJF is used. (Job1 and Job2 will wait during this time) (10 Marks)
3.
 - a. Discuss various multithreading models, with a diagram. (06 Marks)
 - b. Explain the three requirements that a solution to the critical-section problem, must satisfy. (04 Marks)
 - c. State the dining philosophers problem and give a solution for the same, using semaphores. Write the structure of philosopher i. (10 Marks)
4.
 - a. Define the hardware instructions test and set() and swap(). And also give the algorithms for implementing mutual exclusion with these instructions. (06 Marks)
 - b. Describe the necessary conditions for a deadlock situation to arise, in a system. (04 Marks)
 - c. Consider the following snapshot of a system:

	Allocation				Maximum				Available			
	A	B	C	D	A	B	C	D	A	B	C	D
P ₀	0	0	1	2	0	0	1	2	1	5	2	0
P ₁	1	0	0	0	1	7	5	0				
P ₂	1	3	5	4	2	3	5	6				
P ₃	0	6	3	2	0	6	5	2				
P ₄	0	0	1	4	0	6	5	6				

Answer the following questions using the Banker's algorithm:

- i) What is the content of the matrix need?
- ii) Is the system in a safe state?
- iii) If a request from process P₁ arrives for (0, 4, 2, 0), can the request be granted immediately? (10 Marks)

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Table of Contents Jntu Btech First Year Engineering Drawing Material

1. Understanding the eBook Jntu Btech First Year Engineering Drawing Material
 - The Rise of Digital Reading Jntu Btech First Year Engineering Drawing Material
 - Advantages of eBooks Over Traditional Books
2. Identifying Jntu Btech First Year Engineering Drawing Material
 - 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 Jntu Btech First Year Engineering Drawing Material
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jntu Btech First Year Engineering Drawing Material
 - Personalized Recommendations
 - Jntu Btech First Year Engineering Drawing Material User Reviews and Ratings
 - Jntu Btech First Year Engineering Drawing Material and Bestseller Lists

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