IMPORTANT QUESTIONS FOR TERM END EXAM by

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Question 1: Describe the implementation of IPC using shared memory and message passing. Explain with neat, diagrams.

Question 2: Suppose the following jobs arrive for processing at the times indicated. Each job will run the listed amount of time.

Job	Arrival Time	CPU Burst Time
1	0.0	8
2	0.4	4
3	1.0	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 the turn around time and waiting time of each job for the above algorithms?

Question 3: Explain various Multiprocessor Interconnection Networks.

Question 4: Differentiate between SCAN and C-SCAN disk scheduling algorithms. Using an example, explain the steps. Also give a brief note on RAID.

Question 2: Explain the structure of Unix and Windows Operating Systems.

Question 3: Explain the different approaches for implementing mutual exclusion in a distributed environment.

Question 4: Characterize deadlock in a system. Using a resource allocation graph, illustrate a deadlock and explain in detail.

Question 5: Explain the design goals and design issues involved in a distributed system.

Question 6: Describe memory management in Windows 2000

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Question 7: Explain various schemes used for defining the logical structure of a directory. Describe the directory structure of Unix.

Question 8: Differentiate between the following:

- (i) Internal and External Fragmentation
- (ii) Demand paging and Demand segmentation
- (iii) Fixed and Variable partition
- (iv) First fit, Best fit and Worst fit

Question 9: Explain Take-Grant Model for security and protection of an operating system.

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