Paper: II

Operating System Organization and UNIX Paper: BCA-302

Note-	Attempt	five	questions	in	all.
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1.	Define operating system. Name any four examples of operating					
	system. Explain various types of operating system ? Also					
	discuss various services provided by it to its users. 20					

- (a) Discuss' iient-Server architecture for operating system?
 Explain various advantages and disadvantages of client server architecture.
 - (b) Define process. Explain the concept of process state and process control block. Give examples of various processes in UNIX.
- Discuss CPU scheduling algorithms along with suitable examples.
- 4. Explain various memory management technique along with suitable examples. Which techniqe is supported by UNIX operating system?
- What is Disk scheduling? Explain various types of disk scheduling algorithms along with suitable examples.
- 6. (a) Discuss various along with suitable examples. 20
- Define deadlock. How it differs from starvation. What are the necessary conditions fo a deadlock to occur? Explain various deadlock prevention techniques.
- (a) Define interprocess communication. How the processes communicate by means of direct and indirect communication. Give examples.

	(b) Write short note on Direct Memory Access (DMA).	5	
9.	Discuss the following:		
	(a) File Access Methods	15	
	(b) Sequenctial and concurrent process.	5	
10.	Write short note on the following:		
	(a) System Calls and its examples	5 1	
	(b) Short term vs. Long term scheduler		
	(c) Unix File System		
	(d) Interrupt handling		