## [EURCS 404A] B.Tech. Degree Examination

## Computer Science & Engineering IV SEMESTER

## **OPERATING SYSTEMS**

(Effective from the admitted batch 2012–13)

Ti	Max.Marks: 6	.Marks: 60						
Instructions:			Each Unit carries 12 marks.  Answer all units choosing one question from All parts of the unit must be answered in o Figures in the right hand margin indicate no	ne place only.				
	UNIT-I							
1.		used.	are system cells? Give an example of how s List out system call types in the operating system services in detail	ystem calls are	6			
	0)	Laplai	OR		Ü			
2.		program Give b	erate the concept of multitasking. Explain thems used to generate a system orief description on Distributed Systems and dded Systems  UNIT-II	•	6			
3.		proces	n multithreading. Distinguish between sing s multithreaded process in Peterson's solution to Critical Section Pro		6			
	ŕ	•	OR					
4.		of proc	e context switching. Explain queuing diagra cess scheduling short notes on monitors and semaphores	m representation	6 6			
			UNIT-III					
5.		•	n deadlock characterization and wait-for a gare the different methods used for handling	•	6			

		Explain	6
		OR	
6.	-	Explain deadlock avoidance with suitable example Explain Banker's algorithm	6 6
		UNIT-IV	
7.	Ho rep	nsider the following page reference string 1,2,3,4,2,1,5,6,2,1,2,3,7,6,3,2,1,2,3,6 w many page faults would occur for the following page placement algorithms? FIFO b) Optimal c) LRU with four frames	12
		OR	
8.		Explain paging in detail with paging Hard Ware (TLB) Explain in detail about the thrashing	6 6
		UNIT-V	
9.		Give brief description about the I/O performance Explain about Access Matrix concept in the protection	6 6
		OR	
10.	Gi	ve brief description about the various disk scheduling algorithms	12

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