O.P.Code: 19CI0601

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H.T.No.

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations May/June-2024 PRINCIPLES OF OPERATING SYSTEMS

(Computer Science & Information Technology)

Tim	Time: 3 Hours			Max. Marks: 60		
(Answer all Five Units $5 \times 12 = 60$ Marks)						
		UNIT-I				
1	a	Define Operating System and List Operating System Structure in detail.	CO1	L1	6M	
	b	Compare between Operating System Protection and Operating System	CO ₅	L5	6M	
		Security?				
		OR				
2	a	Demonstrate evolution of Operating System in detail.	CO1	L3	6 M	
	b	Explain in detail User and Operating System Interface.	CO ₂	L2	6M	
		UNIT-II				
3	a	Discuss Process Scheduling in detail.	CO6	L6	6M	
	b	Examine in detail Threading issues in Operating System.	CO4	L4	6M	
		OR				
4	a	Demonstrate Operating System Scheduling-Criteria in detail.	CO ₃	L3	6M	
	b	Explain in detail Real-Time CPU Scheduling.	CO ₂	L2	6M	
		UNIT-III				
5	a	Demonstrate Peterson's Solution in detail.	CO ₃	L3	6M	
	b	Examine deadlock prevention in detail.	CO4	L4	6M	
		OR				
6	a	Explain about deadlock characterization.	CO ₂	L2	6M	
	b	Discuss in detail System Model.	CO ₆	L6	6M	
		UNIT-IV				
7	a	Examine in detail about Segmentation.	CO ₄	L4	6M	
	b	Discuss Contiguous Memory allocation in detail.	CO ₆	L6	6M	
		OR				
8	a	Explain about Process Creation in detail.	CO ₂	L2	6M	
	b	Discuss about Page-replacement in detail.	CO ₆	L6	6M	
		UNIT-V				
9	a	Explain about Disk scheduling and Swap-space management.	CO ₅	L5	6M	
	b	Examine about RAID structure and stable-storage implementation.	CO6	L6	6M	
		OR				
10	a	Compare between file sharing and file protection.	CO ₅	L5	6 M	
	b	Examine in detail about Directory Implementation.	CO4	L4	6M	
		*** END ***				