Total No. of Questions: 8]	SEAT No. :
P807	[Total No. of Pages : 2

[5870]-1127

T.E. (Computer Engineering)

SY	STI	EMS PROGRAMMING AND OPERATING SYSTEM (2019 Pattern) (Semester - I) (310243)	1
		[Max. Marks : 7	'0
111SII	1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	
	<i>3</i>)	Figures to the right indicate full marks.	
	4)	Assume suitable data if necessary.	
Q 1)	a)	Explain Differences between static link library and dynamic link library.[8	3]
	b)	What are the different types of Loaders? Explain compile and Go loade in detail.	
		OR	
Q2)	a)	List and explain different loader schemes in detail. [9)]
	b)	Explain Design of Direct linking loaders and explain required dat structures. [8	
Q 3)	a)	Compare Compilers and Interpreters. [8	}]
	b)	What is LEX? Explain working of LEX with suitable diagram. [9])]
	ŕ	OR	_
Q 4)	a)	Define token, pattern, lexemes & lexical error. [8	}]
	b)	What is a compiler? Explain any two phases of compiler with suitable diagram.	
Q 5)	a)	What is the need of Process synchronization? Explain Semaphore i detail.	
	b)	What is Operating System? Explain various operating system services i detail.	

Q6)	a)	Explain preemptive and Non preemptive scheduling in detail.	[9]	
	b)	Explain any two scheduling algorithm with suitable example.	[9]	
<i>Q7</i>)	a)	What is virtual memory management? Explain address translation in pag system.	ing [9]	
	b)	Write proper examples and explain memory allocation strategies first best fit and worst fit. Also explain their advantages and disadvantages.	-	
		OR		
Q 8)	a)	Explain any two page replacement strategies in detail.	[9]	
	b)	What is TLB? Explain the paging system with the use of TLB? What the advantages of TLB?	are [9]	
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