## SPPU-TE-COMP-CONTENT – KSKA Git

Total	l No.	of Questions : 8] SEAT No. :
P80	)7	[Total No. of Pages : 2
		[5870]-1127
		T.E. (Computer Engineering)
SY	STE	EMS PROGRAMMING AND OPERATING SYSTEM
		(2019 Pattern) (Semester - I) (310243)
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		[Max. Marks : 70 ons to the candidates:
	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.
	<i>4</i> )	Assume suitable data if necessary.
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<i>Q1</i> )	a)	Explain Differences between static link library and dynamic link library.[8]
	b)	× 1
	·	in detail. [9]
		OR
<b>Q</b> 2)	a)	List and explain different loader schemes in detail. [9]
	b)	Explain Design of Direct linking loaders and explain required data
	,	structures. [8]
<b>Q</b> 3)	a)	Compare Compilers and Interpreters. [8]
$Q_{J}$	,	
	b)	What is LEX? Explain working of LEX with suitable diagram. [9]
		OR OR
<b>Q</b> 4)	a)	Define token, pattern, lexemes & lexical error. [8]
	b)	What is a compiler? Explain any two phases of compiler with suitable
		diagram. [9]
<b>Q</b> 5)	a)	What is the need of Process synchronization? Explain Semaphore in
ر ح	,	detail. [9]
	b)	What is Operating System? Explain various operating system services in
	-,	detail. [9]

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		OR 🔑	
<b>Q6</b> )	a)	Explain preemptive and Non preemptive scheduling in detail.	[9]
	b)	Explain any two scheduling algorithm with suitable example.	[9]
		S	
<b>Q</b> 7)	a)	What is virtual memory management? Explain address translation in pagsystem.	ging [ <b>9</b> ]
	b)	Write proper examples and explain memory allocation strategies first best fit and worst fit. Also explain their advantages and disadvantages	
<b>Q</b> 8)	a)	OR Explain any two page replacement strategies in detail.	[9]
20)			
	b)	What is TLB? Explain the paging system with the use of TLB? What the advantages of TLB?	are [9]
		26.	
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