SPPU-TE-COMP-CONTENT – KSKA Git

Tota	l No. o	of Questions : 8] SEAT No. :					
PB-	-377		s: 2				
		[6262]-37	$ \mathcal{C} $				
T.E. (Computer Engineering)							
SYSTEMS PROGRAMMING AND OPERATING SYSTEM							
(2019 Pattern) (Semester - I) (310243)							
		[Max. Marks :	70				
Instr	Instructions to the candidates:						
	<i>1</i>)	Answer Q1 or Q2,Q3 or Q4, Q5 or Q6,Q7 or Q8.					
	2)	Neat diagrams must be drawn wherever necessary.					
	3)	Figures to the right indicate full marks.					
	<i>4</i>)	Assume suitable data if necessary.					
Q1)	a) \	Explain Differences between static link library and dynamic link libra	ry.				
	V		[8]				
	b)	What are the different types of Loaders? Explain compile and Go loa	der				
		in detail.	[9]				
		OR	80				
Q2)	a)	What is absolute loader? Explain design of absolute loader with suita	ble				
~		example and flowcharts.	19]				
	1 \	example and flowcharts.					
	b)	Explain Design of Direct linking loaders. Compare Compilers and Interpreters.	[8]				
Q 3)	a)	Compare Compilers and Interpreters.	[8]				
	b)	What is YAAC? Explain working of YAAC with suitable diagram.	[9]				
	U)	what is TAAC! Explain working of TAAC with suitable diagram.	[7]				
	1	OR OR					
O 11	_ {		FO7				
<i>Q4</i>)	a)	Define token, pattern, lexemes & lexical error	[8]				
	b) What is a compiler? Explain any two phases of compiler with suita						
	- / ·	diagram.	[9]				

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Q 5)	a)	Explain Preemptive and Non preemptive scheduling in detail.	[9]
	b)	What is Operating System ?Explain various operating system service detail.	es in [9]
		OR	
Q6)	a)	What is Thread? Explain Thread Lifecycle in detail.	[9]
	b)	Explain any two scheduling algorithm with suitable example.	[9]
Q 7)	a)	Explain Paging and segmentation with suitable example in detail.	[9]
	b)	Explain following placement strategies: First Fit, Best Fit, Next Fit Worst Fit.	and [9]
		OR	
Q 8)	a)	Explain any two page replacement algorithms in detail.	[9]
	b) 🖔	Define and Explain	[9]
		Virtual Memory	
		Translation Lookaside buffer	
		Thrashing	200
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		Thrashing Thrashing	
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