PB-3779

SEAT No. :

[Total No. of Pages : 2

[6262]-.

T.E. (Computer Engineering)

SYSTEMS PROGRAMMING AND OPERATING SYSTEM (2019 Pattern) (Semester - I) (310243)

Time : $2^{1/2}$ Hours]

[Max. Marks : 70

Instructions to the candidates:

- Answer Q1 or Q2,Q3 or Q4, Q5 or Q6,Q7 or Q8. 1)
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- Assume suitable data if necessary. **4**)
- *Q1*) a) Explain Differences between static link library and dynamic link library. [8]
 - What are the different types of Loaders? Explain compile and Go loader **b**) in detail. [9]
- .101e (19] What is absolute loader? Explain design of absolute loader with suitable *O2*) a) example and flowcharts.

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- Explain Design of Direct linking loaders. b)
- Compare Compilers and Interpreters. **Q3**) a)
 - What is YAAC? Explain working of YAAC with suitable diagram. [9] b)

OR

Define token, pattern, lexemes & lexical error, **Q4**) a) [8]

What is a compiler? Explain any two phases of compiler with suitable b) diagram. [9]

[8]

Q5)	a)	Explain Preemptive and Non preemptive scheduling in detail.	[9]
	b)	What is Operating System ?Explain various operating system service detail.	s in [9]
		OR	
Q6)	a)	What is Thread? Explain Thread Lifecycle in detail.	[9]
	b)	Explain any two scheduling algorithm with suitable example.	[9]
Q7)	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 OR	
Q8)	a)	Explain any two page replacement algorithms in detail.	[9]
	b)	Define and Explain	[9]
		Virtual Memory	
		Translation Lookaside buffer	
		Thrashing	20
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