

Sixth Semester B.E. Degree Examination, Feb./Mar. 2022

Operating Systems

Time: 3 hrs.

BANGALORE

Max. Marks:100

Time: 3 hrs.			KS:100
Note: Answer any FIVE full questions, selecting at least TWO questions from each part.			
		CRAPT A	
		PART – A	indicata
1	a.		
	1	J 1	7 Marks)
	b.		5 Marks)
	c.		8 Marks)
2	a.	What is semantic gap in Monolithic OS structure? How is it addressed in layered OS	
			7 Marks)
	b.	Explain the concept of kernel based OS and list the typical functions offered by the k	7 Marks)
	c.		6 Marks)
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3	a.		6 Marks)
	b.		
			6 Marks)
	c.		8 Marks)
4	a.	Compare contiguous and noncontiguous memory allocation methods. (0	5 Marks)
	b.		0 Marks)
	c.	Explain the working of a buddy-system allocator. (0)	5 Marks)
		PART – B	
5	a.		0 Marks)
5	b.		0 Marks)
	0.	C' CV	
6	a.	Explain the file systems and Input-Output Control Systems (IOCS) in detail with	
			0 Marks)
	b.		4 Marks)
	C.	Explain the file system actions when a file is opened and a file is closed. (00	6 Marks)
7		Compute the mean turn-around time and mean weighted turn-around time for follow	wing set
/	a.	of processes using FCFS and SRN scheduling.	wing set
		Processes P1 P2 P3 P4 P5 Arrival Time 0 2 3 5 9	
		VI. 22.2	
			0 Marks)
	h		0 Marks) 6 Marks)
	b. c.		4 Marks)
	О.	briefly explain real time senedating.	T IVIAINS)
8	a.	Explain the buffering of interprocess messages. (07)	7 Marks)

8 a. Explain the buffering of interprocess messages.
b. Write a short note on mail box.
c. Describe exceptional conditions on message passing.
(07 Marks)
(06 Marks)

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