CBCS SCHEME

USN						15EC	553
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		Fifth Semester B.E. Degree Examination, Jan./Feb. 20	23									
		Operating Systems										
Tir	ne: 3		x. Marks: 80									
1 11		Note: Answer FIVE full questions, choosing ONE full question from each t										
		A CONTRACTOR OF THE PROPERTY O										
		<u>Module-1</u>										
1	a.	Explain Goals of an operating system.	(08 Marks)									
	b.	Explain types of computational structures with OS responsibilities.	(08 Marks)									
		OR										
2	a.	Explain Memory management approach in multi programming systems.	(08 Marks)									
	b.	Explain primary advantage in distributed operating systems.	(08 Marks)									
2		Module-2 Define term process state and state transitions. Explain fundamental state	e transitions for									
3	a.	process with a neat diagram.	(08 Marks)									
	b.	Explain in detail PCB.	(08 Marks)									
	υ.	Explain in detail I CB.	(00 Mains)									
		OR										
4	a.	What are threads? Explain reasons for high process Switching overhead ar	nd Advantage of									
•	u.	threads.	(08 Marks)									
	b.	Explain long, medium and short – term scheduling in a time sharing sys										
	-	diagram.	(08 Marks)									
		Module-3										
5	a.	Explain features of comparison between contiguous and non-contiguous me										
			(08 Marks)									
	b.	Explain Paging and Segmentation.	(08 Marks)									
		OR										
,	_	Explain Demand paging.	(08 Marks)									
6	a. h	Explain the functions performed by the VM handler.	(08 Marks)									
	b.	Explain the functions performed by the Vivi manufer.	(00 Marks)									
	e de la composition della comp	Module-4										
7	a.	Explain IOCs and file system.	(08 Marks)									
	b.	Explain file protection.	(08 Marks)									
		OR										
8	a.	Explain file system actions involved in file processing in brief.	(08 Marks)									
	b.	Explain Linked allocation and Indexed allocation.	(08 Marks)									
		Module-5	September 2010 and 1000 and 10									
9	a.	Define message passing. Explain how to implement message passing.	(08 Marks)									
	b.	Explain Mailboxes with its advantages.	(08 Marks)									

OR

Explain Deadlocks in resource allocation.

b. Explain Deadlock prevention methods.

(08 Marks)

(08 Marks)

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