

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	
1	a.	Define Operating System. Discuss various resource allocation techniques.	(10 Marks)
	b.	Explain different computational structures of Operating System with examples.	(10 Marks)
		OR	
2	a.	Explain different classes of Operating Systems.	(10 Marks)
e t	100.000	Discuss using timing chart:	(=======)
		i) When CPU bound program has higher priority.	
	œ <sup>°</sup>	ii) When I/O bound program has higher priority.	(10 Marks)
		Module-2	
3	a.	Define a Process and discuss OS view of a process.	(08 Marks)
U	b.	Discuss various states transition for a process.	(06 Marks)
	c.	Explain the various field of a PCB.	(06 Marks)
		OR State of	(10 N/ 1 )
4	a.	Explain Long term. Medium and Short term scheduling.	(10 Marks)
	b.	Discuss two representative approaches to implementation of threads.	(10 Marks)
		Module-3	
5	a.	Compare and contrast Contiguous and non Contiguous memory allocation technic	
	1.	White short noted by Desires ii) Commentation	(08 Marks)
,	b.	Write short notes on: i) Paging ii) Segmentation.	(12 Marks)
		OR	
6	a.	Explain Demand paging preliminaries.	(10 Marks)
	b.	With an example, discuss FIFO, LRU page replacement policy.	(10 Marks)
		Module-4	
7	a.	Explain the interface between File system and IOCS.	(10 Marks)
	b.	Compare and contrast Sequential file organization and Direct file organization.	(10 Marks)
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0	100	OR	(10 34 1 )
8	a.	Explain Directory structures.	(10 Marks) (10 Marks)
	b.	Discuss briefly File system actions at OPEN and CLOSE.	(10 Marks)
Module-5			
9	a.	Define Message passing and Explain how it could be implemented.	(10 Marks)
	b.	Discuss the following with respect to main box: i) Features ii) Advantages	
		iii) Air line reservations Server using 3 mail boxes.	(10 Marks)
		OR	
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Define Deadlock. Discuss Resource request and allocation graph and Wait – for – graph for 10 a system containing resource class and processes. (10 Marks) b. Explain Deadlock Detection Algorithm. (10 Marks)