AR - 643

Third Semester B. C. A. (Part - II) Examination

## ADVANCED OPERATING SYSTEM

(a)		ar
(b)	(ii) Resource Allocation: : nialqx3	
	(i) Block State.	
	(a) Explain Four Modulic.bnaqsu2 (ii)	6
	(b) Explain deadlock recovery.	
		6
(b)	What are the functions of a Proces	6
(a)	Explain Mutual Exclusion Primitives.	6
(b)	Explain Monitors with suitable example.	6
	(b) (a) (b)	Operating System? Explain in brief.  (b) Explain:  (i) Block State.  (ii) Suspend.  OR  (a) Explain process Control Block.  (b) What are the functions of a Process Management System?

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4.	(a)	What is Semaphore? What types of operation can be performed on a semaphore?	ns 6
	(b)	Explain the concept of critical regions.	6
5.	(a)	Define deadlock. Write and explain Banke algorithm for deadlock avoidance.	
	(b)	Explain the following :-	
		(i) Deadlock detection.	
		(ii) Resource Allocation.	6
		OR MANY STATES OF	
6.	(a)	Explain Four Modification for deadlock.	6
	(b)	Explain deadlock recovery.	6
7.	(a)	What are the main advantages of Mul- programming? Explain with example.	ti-
	(b)	Explain the architecture for Paging Mechanism	m.
		OR (a) Le plain Minual Exclusion Primitive	
8.		Explain the storage organization.	6

	(b)		st 6
9.	(a)	Explain processor scheduling.	5
	(b)	Explain fair share scheduling.	5
		OR	
10.	(a)	Explain the following:—  (i) HRN.	
		(ii) JOB.	5
	(b)	Explain Priority scheduling or Priority queue	5