(i) Printed Pages: 4]

Roll No.

(ii) Questions : 9]

Sub. Code : 0 5 7 3

Exam. Code : 0 0 0 6

B.A./B.Sc. (General) 6th Semester Examination

1047

COMPUTER APPLICATIONS (Operating System) Paper: B

Time: 3 Hours]

[Max. Marks: 65

Note: Attempt five questions in all including Question No. 9 (Unit-V) which is compulsory and selecting one question from each Unit I-IV.

Unit-I

- 1. Compare the following memory management concepts:
 - (a) Protection vs. Sharing.
 - (b) Non-contiguous real vs. Non-contagious virtual memory management.

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(1)

Turn Over

	(c)	Internal vs. External fragmentation.				
	Dirty page vs. Dirty bit.					
	(e)	Demand paging vs. Demand Segmentation.				
	(f)	Locality of reference vs. page fault. 2,2,2,2,3				
2.	(a)	Explain at least 10 functions of an operating system.				
	(b)	Compare Multitasking, Multiprocessing, Real-				
		time, Parallel and Distributes operating system				
		in a tabular form.				
		Unit-II				
3.	a de	t is a deadlock? What are the prerequisities for eadlock? What are the strategies to detect a lock and prevent a deadlock?				
4.	(a)	What is process scheduling? Explain the following process scheduling objectives:				
		(i) Fairness				
		(ii) Good throughput				
		(iii) Good CPU utilization.				
		(iv) Low turnaround time				
		(v) Low waiting time				
		(vi) Good response time				
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	(b)	Explain the advantages and disadvantages of the following process scheduling algorithms:						
		(i)	FCFS		(ii)	SJF		
		(iii)	Priority ba	ased	(iv)	Round robin		
		(v)	Multilevel	Queue				
		(vi)	Multilevel	Feedbac	k Qu	eue	7,6	
				Unit-	I			
5.	(a)	(a) What are the various allocation methods in file system structure?						
	(b)		free space ture ?	can be	manag	ged in file system	6,7	
6.	(a)	TO SHOTSE	lain the ithms:	followi	ng d	lisk scheduling		
		(i)	FCFS	(special	(ii)	SSTF		
		(iii)	SCAN		(iv)	S-SCAN		
		(v)	LOOK					
	(b)			upt drive	n and	poll driven data		
		trans	ters.	TT T	x 7		10,3	
				Unit-I				
7.	•					cat, mkdir, rm, with options?		
8.			自由,自由自由,由于			nd what are the dministrator?	5,8	
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Unit-V

- 9. Answer the following questions in brief:

 - (b) What is the full form of NTFS?
 - (c) What is the purpose of jobs command?
 - (d) Which command is used to change the system date in Linux?
 - (e) What the following command will do *chmod* + x File 1?
 - (f) Write down the names of the commands to create, modify and delete a user account in Linux?
 - (g) What are device drivers?
 - (h) What is the use of Limit Register?
 - (i) What is Single Fixed Partition for memory management?
 - (j) What is register?
 - (k) What are threads?
 - (1) Write any two tasks that a root user cannot do?
 - (m) Which command is used to schedule a process for the whole year? 1×13=13

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