November 2017 **BCA Semester 3**

Subject: CC303 Operating System ~ 20630

Marks: 70Time $2^{1}/_{2}$ hour

0-1	Answer the follo	wing ques	tions.			
~ -	1. Explain Struct					07
			Distributed Operating	System in deta	il.	07
	2. Daplain Real		OR	, - ,		
O-1	Answer the follo	wing ques	tions.			
			b, File and Comman	d Interpreter.		07
					m.	07
Q-2	 Explain Serial, Batch and multi Processor of Operating System. Answer the following questions. Explain PCB in detail. Find out Waiting Time, Average Waiting Time, Turnaround Time and Average Turnaround Time using FCFS and RR Scheduling Algorithm. Time Quantum is 3 MS. 			ime and lgorithm.	07 07	
		Process	CPU Burst Time	Arrival Time		
		D1	0	5		

Process	CPU Burst Time	Arrival Time
P1	8	5
P2	5	0
P3	4	4
P4	6	8
P5	4	3

OR

Q-2	Answer	the	following	questions.
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1. What is Scheduler? Explain its types in detail. 2. Find out Waiting Time, Average Waiting Time, Turnaround Time and Average Turnaround Time using FCFS and SJF Scheduling Algorithm.

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Process	Burst Time	Arrival Time
P1	5	2
P2	6	0
P3	7	6
P4	7	4
P5	4	5

Q – 3	Answer the following questions. 1. Explain Characteristics and Necessary Conditions of Deadlock. 2. Explain various means of Deadlock Recovery OR	07 07
Q – 3	Answer the following questions. 1. Explain Deadlock Prevention. 2. Explain Thread in detail with its Benefits.	07 07
Q – 4	Answer the following questions. 1. Explain Paging in detail. 2. What is Logical and Physical Address? Explain Logical to Physical Address Map. OR	07
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Q – 4	Answer the following questions.1. What is Fragmentation? Explain its types with Example.2. Explain Protection and Sharing in Paging.	07

Q-5	Answer the following questions.			
	1. Write down Short note on Segmentation.	07		
	2. Find out Page Fault and Page Hits for the following page detail using FIFO	07		
	and Optimal Page Replacement Algorithm.			
	8,9,7,4,6,8,9,8,6,5,4,2,1,5,3,5,4,8,7,8,9			
	Frame size is 3			
	OR			
Q-5	Answer the following questions.			
_	1. Write difference between Paging and Segmentation.	07		
	2. Find out Page Fault and Page Hits for the following page detail using FIFO	07		
	and LRU Page Replacement Algorithm.			
	1,2,0,5,4,6,8,2,1,0,8,7,9,0,1,5,9,7,5,8,3			
	Frame size is 3			