CMR INSTITUTE OF TECHNOLOGY		USN							CMR			
Internal Assesment Test – III												
Sub:	Sub: Ope			erating Systems Co						de:	e: 17MCA24	
Date:	06.06.2018 Du	ration:	90 mins Max Marks: 50 Sem: II Br				Bran	nch:	MCA			
Answer Any One FULL Question from each part.												
							Marks	OBE				
										wans	CO	RBT
Part – I												
. ,	operating system								x 10	CO5	L2	
2 (a)	Describe hardware solution for critical section problem								5	CO3	L2	
(b)	(b) Explain fragmentation and its types with neat diagram									5	CO3	L1
Part – II												
3 (a)	What is Critical Section and Mutual Exclusion									5	CO3	L1
(b)	b) What is symmetric multiprocessor system? What are its benefits?									5	CO3	L1
4 (a)	What is system call? What are the types of system call? Give examples of each.								6	CO1	L2	
(b)	Define PCB? List its contents									4	CO2	L1
PART - III												
	Explain Banker's algorithm for deadlock avoidance								7	CO3	L3	
	Write short note about Inter process communication in Linux								3	CO5	L2	
	With a neat diagram explain the steps in handling page fault.								5	CO3	L3	
(b)	Explain the components of Linux OS									5	CO5	L1
Part – IV Mention the different page table structure explain in brief 10 CO3 L2												
	Mention the different page table structure explain in brief Define Security problem and system threat								10	CO3	L2	
	Explain the role of operating system to prevent.								5	CO5	L2 L1	
Part – V											CO3	LΙ
	Explain the following with respect to the file system: i) Contiguous allocation ii) Linked allocation iii) Indexed allocation								10	CO4	L1	
10.	Describe the methods used	d for im	plementi	ng dire	ctories	struct	tures			10	CO4	L2