Name			Printed Pages:01		
Student Admn. No.:				C	
School of Computing Science & Engineering Backlog Examination, June 2023					
[Program: BCA] [Semester:IV] [Batch:1]					
Cou		ax Marks: 1	Marks: 100		
			: 3 Hrs.		
Instructions: 1. All questions are compulsory.					
2. Assume missing data suitably, if any.					
		K Level	COs	Marks	
	SECTION-A (15 Marks) 5 Marks each	K Level	003	IVIALKS	
1.	What is operating Systems and what are the functions of operating systems	k1	CO1	5	
2.	Define Virtual memory concept	k2	CO1	5	
3.	What are the various methods for disk allocation and explain them briefly	k1	CO3	5	
SECTION-B(40 Marks) 10 Marks each					
4.	What is operating system? Explain different functions of operating system.	k2	CO2	10	
5.	What are the four necessary conditions to occur a deadlock? Explain banke algorithm.	ers k3	CO4	10	
6.	Compare parallel processor systems with distributed systems.	k4	CO1	10	
7.	Explain Dining Philosopher problem in process synchronization. OR What is deadlock detection and recovery? Describe the methods for recovering fro deadlock.	m k3	CO3	10	
SECTION-C (45 Marks) 15 Marks each					
8.	Explain with the help of examples FIFO and LRU, with example. Mention the meriaORORConsider the following set of processes with the length of CPU burst time givemilliseconds:ProcessBurst TimePriorityP1103P2291P333P474P5122The processes are assumed to have arrived in the order P1, P2, P3, P4, P5 all at tim0.What is the turnaround time and waiting time of each process for using FCFS, SJF	in k4	CO3	15	
9.	What is the importance of paging and segmentation in memory management? Expla with diagram.	in k3	CO4	15	
10	Define concept of File Operations. Give the process of directory structures and Fi management. OR Discuss various system threats to Operating System. What is access control an authentication?		CO5	15	