

# CBCS SCHEME

USN 2NR22ADOOS

BCS303

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024

## Operating Systems

Time: 3 hrs.

Max. Marks: 100

*Notes: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks, L: Bloom's level, C: Course outcomes.*

Module - 1				M	L	C																				
Q.1	a.	Define Operating System. Explain dual mode of OS with a neat diagram.		5	L1, L2	CO1																				
	b.	Distinguish between the following terms: i) Multiprogramming and Multitasking ii) Multiprocessor system and clustered system.		10	L2	CO1																				
	c.	With a neat diagram, explain the concept the concept of VM-WARE architecture.		5	L1, L2	CO1																				
OR																										
Q.2	a.	Explain the operating system services with respect to programs and users.		5	L2	CO1																				
	b.	List and explain the different computing environments.		5	L1, L2	CO1																				
	c.	What are system calls? List and explain the different types of system calls.		10	L1, L2	CO1																				
Module - 2																										
Q.3	a.	Define process. Explain different states of a process with state diagram.		8	L1, L2	CO1																				
	b.	What is IPC? Explain direct and indirect communication with respect to message passing.		8	L1, L2	CO2																				
	c.	Explain context-switching.		4	L2	CO2																				
OR																										
Q.4	a.	What is multi-threaded process? Explain the four benefits of multithreaded programming.		6	L2	CO2																				
	b.	Calculate the average waiting time and average turn around time by drawing the Gantt-chart using FCFS, SJF-non preemptive, SRTF, RR(q = 2ms) and priority algorithms.		14	L3	CO2																				
			<table><tr><th>Process</th><th>Arrival time</th><th>Burst time</th><th>Priority</th></tr><tr><td>P1</td><td>0</td><td>9</td><td>3</td></tr><tr><td>P2</td><td>1</td><td>4</td><td>2</td></tr><tr><td>P3</td><td>2</td><td>9</td><td>1</td></tr><tr><td>P4</td><td>3</td><td>5</td><td>4</td></tr></table>	Process	Arrival time	Burst time	Priority	P1	0	9	3	P2	1	4	2	P3	2	9	1	P4	3	5	4			
Process	Arrival time	Burst time	Priority																							
P1	0	9	3																							
P2	1	4	2																							
P3	2	9	1																							
P4	3	5	4																							
Module - 3																										
Q.5	a.	What is critical section? What are the requirements for the solution to critical section problem? Explain Peterson's solution.		8	L1, L2	CO3																				
	b.	Explain Reader's-Writer's problem using semaphores.		12	L2	CO3																				

1 of 2

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**Anthony S. Fauci**



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