Register No. :..... Name:.....

	Adhiyamaan College of Engineering (Autonomous)		
	Question Paper	CSE	
B. E. COMPUTER SCIENCE ENGINEERING		Branch: DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Semester: II-CSE-A		Academic Year: 2024-25	
Course Code: 422CIT04	L-T-P Credits: 3-0-0-3	Course Name: OPERATING SYSTEMS	
Time: 02:00 Hrs.	CIA-I	Date: 06/02/2025	Maximum Mark: 50

No.	Question	Mark	CO	BL
	PART-A(5*2=10)			
1	Define Device Drivers.	2.0	CO1	1
2	Outline Process State Diagram.	2.0	CO1	1
3	What does PCB holds?	2.0	CO1	1
4	What is Convoy Effect in CPU Scheduling?	2.0	CO2	2
5	How will you Calculate Effective time in CPU Scheduling?	2.0	CO2	3
	PART-B (5*8=40)			
6	Explain in Breifly about System Calls and its Operation.	8.0	CO1	2
7	Describe OS Structure With neat Sktech.	8.0	CO1	2
8	Explain the Components of OS.	8.0	CO1	2
9	Solve the following set of processes with the length of the CPU-burst time given in milliseconds.	8.0	CO2	3

PROCESS	BURST TIME	PRIORITY
P1	10	3
P2	1	1
P3	2	3
P4	1	4
P5	5	2

These processes are assumed to have arrived in the order

P1,P2,P3,P4,P5

All at time 0.

10

10.1 Compare FCFS Scheduling and SJF Scheduling Algorithm	4.0	CO2	4
10.2 If FCFS Algorithm is Followed and there is 1-unit of overhead in Scheduling the Processes.	4.0	CO1	3

PROCESS	ARRIVAL TIME	BURST TIME
P1	0	3
P2	1	2
P3	2	1

Find the Efficiency of the Algorithm.

CO: Course Outcomes

- CO1: Apply the concepts of classes and objects to solve simple problems
- CO2: Develop programs using inheritance, packages and interfaces

BL: Blooms Taxonomy Level

6-Creating, 5-Evaluating, 4-Analyzing, 3-Applying, 2-Understanding, 1-Remembering,

Prepared by (Faculty in charge)	Verified by (DQAC member)	Approved by (HOD)
DHANA LAKSHMI R		