

4th Semester B.Tech Mid-Term Exam 2024-25

OPERATING SYSTEMS(BTCS-T-OE-036)

BRANCH(S) - Electrical & Electronics Engineering, Electronics & Communication Engineering

SIC No						

Dur	ration: 01:30			Total No. of Pages:-01	Full Marks: 25			
1 A	nswer All							
a	Differentia	1						
b	Explain in	1						
c	Differentia	te between	multiprocess	ing and distributed operating system.	1			
d								
e								
f								
2.4	nswer All				1			
a a		nurnose o	f System Call	s in an Onerating System?	3			
b		What is the purpose of System Calls in an Operating System? Discuss the concept of Inter Process Communication (IPC).						
С		policy is u	sed? Show th	What would be the average turnaround time if FCFS e Gantt chart and all calculations.	3			
3 A	nswer any O	ne						
a	What is an	operating s	system? Expla	in the different services provided by an operating system.	5			
b	Discuss abo	out some m	ajor responsi	bilities of operating system.	5			
4 <i>Ai</i>	nswer any O	ne						
a	given in ms	3.	g set of proce Burst Time 18 2 5	sses with the arrival time and length of CPU burst time is	5			

Find the average waiting and turnaround time for FCFS, SJF, SRTF, and RR (time slice 3ms) scheduling algorithms.

What is a thread? How it is different from a process. How it is advantageous? Compare between the single threaded system and multithreaded system.