Enroll. No._____

MARWADI UNIVERSITY
MU-FOT
ICT-FOT1 (MU)
Semester 4 - Summer

Subject : OPERATING SYSTEM (01CT0409)

Date : 09-Apr-2022 **Time : 1 Hours 15 Minutes** **Total Marks : 30**

Instructions :

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Que.1 Answer the following questions. **[6]**

(A)

(1) What do you mean by Context Switching?

(2) If a process is executing in its critical section, then no other processes can be executing in their critical section. What is this condition called?

(3) Define : Process Scheduling

(4) A situation where several processes access and manipulate the same data concurrently and the outcome of the execution depends on the particular order in which access takes place is called _____

(5) How many types of threads are there?

(6) Define Process Control Block.

Que.2

(A) Enlist and explain various scheduling criteria. [6]

(B) What is process synchronization? [6]

OR

(B) Differentiate between: Process and Thread. [6]

Que.3

(A) What is IPC? Explain in detail. [8]

(B) Describe the disadvantages of FCFS. [4]

OR

(A) WHat is Synchronous and Asynchronous Message Passing? Explain in detail. [8]

(B) Enlist and explain different types of scheduling queues. [4]

---Best of Luck---

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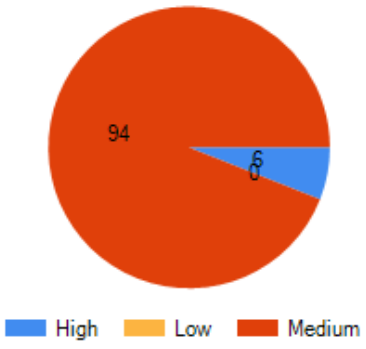
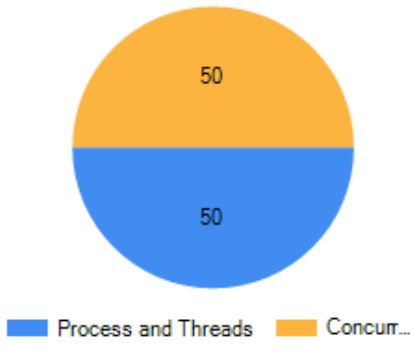
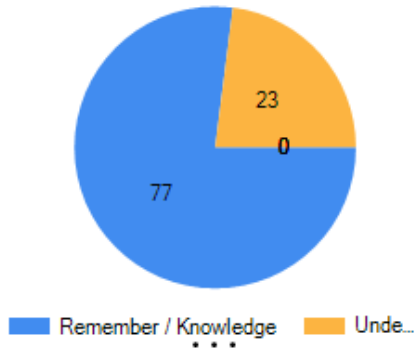
Difficulty Level	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
High	20	6.25	3	3	1(A)
Low	20	0.00	0	0	
Medium	60	93.75	10	45	1(A), 2(A), 2(B), 3(A), 3(B)

Module Name	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
Process and Threads	50	50.00	8	24	1(A), 2(A), 2(B), 3(B)
Concurrency Control (IPC)	50	50.00	5	24	1(A), 2(B), 3(A)

Blooms Taxonomy	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
Remember / Knowledge	20	77.08	10	37	1(A), 2(A), 2(B), 3(A), 3(B)
Understand	30	22.92	3	11	1(A), 2(B), 3(B)
Apply	25	0.00	0	0	
Analyze	15	0.00	0	0	
Evaluate	10	0.00	0	0	
Higher order Thinking	0	0.00	0	0