SET-1

St. Peter's	: Fr	ngineering	College (Δι	utonomous)	Dept.	:	CSM
	apa	lly (P), Medcha Aid Term Examin	al, Hyderabad	- 5	500100.			ic Year I-25
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM			
Class/Section	Class/Section : B. Tech. Year : II						:	II
Duration	Duration : 120 Min Max. Marks : 30					Date:	:	

		BLOOM	IS LEVEL		
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

 $PART-A\ (10x1M=10M)$ Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
	UNIT – I			
1	a) What is an Operating System	1M	L1	1
	b)Define Time-Shared Operating system	1M	L1	1
	c) Distinguish between Process andthread	1M	L2	1
	d) Define a System call	1M	L1	1
	UNIT – II			
	e) Define Non-Preemptive scheduling	1M	L1	2
	f) Define "Turnaround-Time" in the context of CPU scheduling	1M	L1	2
	g)Define Hold and Wait Condition in Deadlock	1M	L1	2
	h) Define a Deadlock	1M	L1	2
	UNIT – III			
	i) Define the Critical Section problem	1M	L1	3
	j) Define Counting Semaphore	1M	L1	3

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – I		1	
2	a) Explain in detail about components of a operating system	4M	L4	1
	b) Write short notes ontypes of operating system	4M	L2	1
	OR			
3	a) Explain in detail about System calls	4M	L4	1
	b) Explain in detail about Process concept	4M	L4	1
	UNIT – II			
4	a) Explain in detail about any one Scheduling Technique	4M	L4	2
	b)Explain in detail about Multiple Processor scheduling	4M	L4	2
	OR			
5	a)Explain in detail about Methods for Handling Deadlock	4M	L4	2
	b)Explainin detail about Deadlock Detection.	4M	L4	2
	UNIT – III			
6	Explain in detail about ProcessSynchronization	4M	L4	3
	OR			
7	Explain in detail Bounded Buffer Problem.	4M	L4	3

SET-2

St Peter's	Fr	St. Peter's Engineering College (Autonomous)							
	ара	lly (P), Medcha Aid Term Examin	ıl, Hyderabad	- 5	500100.			ic Year I-25	
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM				
Class/Section : B. Tech. Year : II					Semester	:	11		
Duration	Duration : 120 Min Max. Marks : 30					Date:	:		

		BLOOM	IS LEVEL		
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

$PART - A \ (10x1M = 10M)$ Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO					
	UNIT – I								
1	a)Define Real Time Operating System	1M	L1	1					
	b)List out the OS Services	1M	L1	1					
	c) Discuss about Stages included in OS	1M	L2	1					
	d) Define Uni-Programming System	1M	L1	1					
	UNIT – II								
	e)Define Non-Preemptive scheduling	1M	L1	2					
	f) Define "Arrival Time" in the context of CPU scheduling	1M	L1	2					
	g)Define Dispatcher in CPU Scheduling	1M	L1	2					
	h) Define Mutual Exclusion	1M	L1	2					
	UNIT – III			_					
	i)Define Hardware Synchronization	1M	L1	3					
	j) Define Binary Semaphore	1M	L1	3					

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – I			
2	a) Explain in detail about Multi-Programming system	4M	L4	1
	b)Discuss about Simple-Batch system	4M	L2	1
	OR			
3	a) Explain in detail about Process Management	4M	L4	1
	b) Explain in detail about Distributed Systems and its advantages	4M	L4	1
	UNIT – II			
4	a) Discuss about First Come First Serve Scheduling Algorithm	4M	L2	2
	b) Discuss about Priority Scheduling Algorithm	4M	L2	2
	OR			
5	a) Explain in detail about the Necessary conditions for Deadlock	4M	L4	2
	b) Explain in detail about Deadlock Prevention	4M	L4	2
	UNIT – III			
6	Discuss about Producer Consumer Problem	4M	L2	3
	OR			
7	Explain in detail about Reader Writer's Problem	4M	L4	3

SET-3

St Peter's	St. Peter's Engineering College (Autonomous)							
	ара	lly (P), Medcha Aid Term Examin	al, Hyderabad	– 5	500100.			nic Year 1-25
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM			
Class/Section	Class/Section : B. Tech. Year : II					Semester	:	II
Duration : 120 Min Max. Marks : 30					Date:	:		

BLOOMS LEVEL						
Remember	L1	Understand	L2	Apply	L3	
Analyze	L4	Evaluate	L5	Create	L6	

$PART - A \ (10x1M = 10M)$ Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO				
	UNIT – I							
1	a)List any four functions of Operating System	1M	L1	1				
	b)Define an Interrupt	1M	L1	1				
	c)Define Operating System	1M	L2	1				
	d) Define Client Server System	1M	L1	1				
	UNIT – II							
	e)Define Burst-Time of a Process.	1M	L1	2				
	f) Define Completion-Time in the context of CPU scheduling	1M	L1	2				
	g)Define Throughput in CPU Scheduling	1M	L1	2				
	h) Define Circular Wait condition	1M	L1	2				
	UNIT – III							
	i)Define Cooperative processes	1M	L2	3				
	j) Define Critical Section Code	1M	L1	3				

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – I	1		T
2	a) Explain in detail about Evolution of Operating System	4M	L4	1
	b)Discuss about Parallel Operating System	4M	L2	1
	OR			•
3	a) Explain in detail about Operations on Processes	4M	L4	1
	b) Explain in detail about Memory Management	4M	L4	1
	UNIT – II			
4	a) Discuss about Round Robin Scheduling Algorithm	4M	L2	2
	b) Discuss about Shortest Job First- Non-Preemptive Scheduling	4M	L2	2
	OR			·
5	a) Explain in detail about Resource Allocation Graph	4M	L4	2
	b) Explain in detail about Banker's Algorithm.	4M	L4	2
	UNIT – III			
6	Discuss about Dining- Philosophers Problem	4M	L2	3
	OR	•		
7	Explain in detail about Sleeping Barber Problem	4M	L4	3
