SR 22

SET-1

St. Peter's Engineering College (Autonomous) Dullapally (P), Medchal, Hyderabad – 500100. II - Mid Term Examination – January 2024						Dept.	:	
						Academic Year 2024-25		
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM			
Class/Section	:	B. Tech. (A)	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

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PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
1	**a)** Define Segmentation.	1M	L1	4
	b) Define Swapping.	1M	L1	4
	c) Define Paging.	1M	L1	4
	d) Define Logical Address Space.	1M	L1	4
	UNIT – V			
	e) Define a File.	1M	L1	5
	f) Define File System Mounting.	1M	L1	6
	g) List out the Merits of Linux.	1M	L1	5
	h) Define File path.	1M	L1	6
	UNIT – III			
	i) Define Inter Process Communication.	1M	L1	3
	j) Define Message Passing.	1M	L1	3

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PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Explain in detail about Memory Management.	**4M**	L4	4
	b) Explain in detail about Physical Address Space.	**4M**	L4	4
	OR			
3	a) Explain in detail about Segmentation.	**4M**	L4	4
	b) Explain Contiguous Allocation.	**4M**	L4	4
	UNIT – V			
4	a) Explain in detail about File Directory Structure.	**4M**	L4	5
	b) Explain in detail about Objectives of File Management System.	**4M**	L4	6
	OR			
5	a) Explain in detail about System Calls.	**4M**	L4	5
	b) Explain in detail about File System Structure.	**4M**	L4	6
	UNIT – III			
6	Discuss about Inter Process Communication?	**4M**	L2	3
	OR			
7	Explain in detail about Shared Memory.	**4M**	L4	3

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SET-2

St. Peter's Engineering College (Autonomous) Dullapally (P), Medchal, Hyderabad – 500100. II - Mid Term Examination – January 2024						Dept.	:	
						Academic Year 2024-25		
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM			
Class/Section	:	B. Tech. (A)	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

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PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
1	**a)** Define Segment Table.	**1M**	L1	4
	b) Define Page Table.	**1M**	L1	4
	c) Define Memory Management Unit.	**1M**	L1	4
	d) Define Physical Address Space.	**1M**	L1	4
	UNIT – V			
	e) Define Directory.	**1M**	L1	5
	f) Define Sequential Access Method.	**1M**	L1	6
	g) Define File Directory.	**1M**	L1	5
	h) What is the use of System Calls	**1M**	L1	6
	UNIT – III			
	i) Define Process Synchronization in the context of Inter Process Communication.	**1M**	L1	3
	j) Define Independent Process.	**1M**	L1	3

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PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Distinguish between Dynamic Loading and Dynamic Linking.	**4M**	L2	4
	b) Explain in detail about Logical Address Space.	**4M**	L4	4
	OR			
3	a) Explain in detail about Swapping.	**4M**	L4	4
	b) Explain in detail about Paging.	**4M**	L4	4
	UNIT – V			
4	a) Discuss about Directory Implementation.	**4M**	L2	5
	b) Discuss about File Sharing.	**4M**	L2	6
	OR			
5	a) Explain in detail about Linked Allocation method of a File.	**4M**	L4	5
	b) List the different File Accessing Methods?	**4M**	L1	6
	UNIT – III			
6	Discuss about Message Queue.	**4M**	L2	3
	OR			
7	Discuss about the Advantages and Disadvantages of Inter Process Communication.	**4M**	L2	3

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SET-3

St. Peter's Engineering College (Autonomous) Dullapally (P), Medchal, Hyderabad – 500100. II - Mid Term Examination – January 2024						Dept.	:	
						Academic Year 2024-25		
Subject Code	:	AS22-05PC02	Subject	:	OPERATING SYSTEM			
Class/Section	:	B. Tech. (A)	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

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PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
1	**a)** Define Physical Memory.	1M	L1	4
	b) Define Fixed Partitioning.	1M	L1	4
	c) Define Segment Table Base Register.	1M	L1	4
	d) Define Page Offset.	1M	L1	4
	UNIT – V			
	e) Define File Attribute.	1M	L1	5
	f) Define File Pointer.	1M	L1	6
	g) Define Single Level Directory.	1M	L1	5
	h) Define Remote File Systems.	1M	L1	6
	UNIT – III			
	i) Define Pipes.	1M	L1	3
	j) Define Co-operating Process.	1M	L1	3

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PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Explain in detail about Partitioning.	**4M**	L4	4
	b) Explain in detail about Non-Contiguous Allocation.	**4M**	L4	4
	OR			
3	a) Explain in detail about Segmentation with Paging.	**4M**	L4	4
	b) Explain in detail about any one Page Replacement Algorithm.	**4M**	L4	4
	UNIT – V			
4	a) Discuss about different File Operations.	**4M**	L2	5
	b) Discuss about Tree Structured Directories.	**4M**	L2	6
	OR			
5	a) Explain in detail about File System Mounting.	**4M**	L4	5
	b) Explain in detail about Virtual File Systems.	**4M**	L4	6
	UNIT – III			
6	Discuss about Message Passing.	**4M**	L2	3
	OR			
7	Explain in detail about Pipes.	**4M**	L4	3

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