

USN 

Improvement Test – May 2018

Sub:	OPERATING SYSTEMS				Sub Code:	15CS64	Branch:	CSE	
Date:	22/05/2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	6/A & B		OBE
Answer any FIVE FULL Questions							MAR	CO	RB
1 (a)	Explain Dining-Philosopher's problem using monitors.				[10]	KS	CO4	L4	T
2 (a)	What is disk scheduling? Discuss different disk scheduling algorithms with example.				[10]		CO3	L1	
3 (a)	Explain different IPC mechanisms available in Linux in detail.				[10]		CO1& CO2	L4	
4 (a)	What is a critical section problem? What requirements should a solution to critical section problem satisfy? State Peterson's solution and indicate how it satisfies the above requirements.				[10]		CO4	L1	
5 (a)	What are the design principles of Linux OS? Explain.				[06]		CO1& CO2	L1	
(b)	Explain various components of a Linux system.				[04]		CO1 & CO2	L4	

USN 

Improvement Test – May 2018

Sub:	OPERATING SYSTEMS				Sub Code:	15CS64	Branch:	CSE	
Date:	22/05/2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	6/A & B		OBE
Answer any FIVE FULL Questions							MAR	CO	RB
1 (a)	Explain Dining-Philosopher's problem using monitors.				[10]	KS	CO4	L4	T
2 (a)	What is disk scheduling? Discuss different disk scheduling algorithms with example.				[10]		CO3	L1	
3 (a)	Explain different IPC mechanisms available in Linux in detail.				[10]		CO1& CO2	L4	
4 (a)	What is a critical section problem? What requirements should a solution to critical section problem satisfy? State Peterson's solution and indicate how it satisfies the above requirements.				[10]		CO4	L1	
5 (a)	What are the design principles of Linux OS? Explain.				[06]		CO1& CO2	L1	
(b)	Explain various components of a Linux system.				[04]		CO1 & CO2	L4	

6 (a)	What are directories? List and explain different types of directory structure with examples. Mention their advantages and disadvantages.	[10]	CO3	L1
7(a)	What is a file? List and explain any five typical file attributes and any five file operations.	[06]	CO3	L1
(b)	Explain how free space is managed.	[04]	CO3	L4
8(a)	What is protection? Distinguish between mechanism and policies. Explain briefly access matrix with domains as objects.	[10]	CO1& CO2	L1

-----**All the Best**-----

(Addition of both internal marks/100)*15

6 (a)	What are directories? List and explain different types of directory structure with examples. Mention their advantages and disadvantages.	[10]	CO3	L1
7(a)	What is a file? List and explain any five typical file attributes and any five file operations.	[06]	CO3	L1
(b)	Explain how free space is managed.	[04]	CO3	L4
8(a)	What is protection? Distinguish between mechanism and policies. Explain briefly access matrix with domains as objects.	[10]	CO1& CO2	L1

-----**All the Best**-----