GeetanjaliCheritableTrustSanchalit

## GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE (BBA)

PRELIMINARY EXAM B.C.A. & B.Sc. (IT) SEM - 4

ubject Time	: Operating System Concepts with Unix/Linux : 2 Hours.	Date: 12/03/2025 Marks: 50
Q-1-(A)	) ANSWER THE FOLLOWING.	(3)
	stands for	
	eue at Ticket window is example of type of sat is the full form of PCB?	cheduling algorithm.
O-1-(B)	ANSWER IN BRIEF.	(2)
	lain Context Switching.	ν-/
Q-1-(c)	ANSWER IN BRIEF.	(5)
	lain RR with suitable example.	``
	OR	
Q-1-(A)	) ANSWER THE FOLLOWING.	(3)
	ne an Operating System.	
	en running process requires some input/output then it go at is Process?	oes tostate.
	ANSWER IN BRIEF.	(2)
1. Exp	lain Explain Process state transition diagram in brief.	
Q-1-(c)	ANSWER IN BRIEF.	(5)
1. Expl	ain FCFS with suitable example.	
Q-2-(A)	) ANSWER THE FOLLOWING.	(3)
1. Defi	ne deadlock.	
2. Wha	at is fragmentation?	
3. Expl	ain the concept of paging.	
Q-2-(B)	ANSWER IN BRIEF.	(2)
1. Exp	plain deadlock prevention techniques.	
Q-2-(c)	ANSWER IN BRIEF.	(5)
	escribe contiguous and non-contiguous memory allocati	
	OR	
Q-2-(A)	) ANSWERTHEFOLLOWING.	(3)
1. In Pa	, aging, we divide the programs into equal sized blocks cal ded into equal sized blocks known as	• •
	at is internal Fragmentation?	
3. Full	form of SMT	
O-2-(R)	ANSWER IN BRIEF.	(2)
	/hat is the difference between paging and segmentation	• •

Q-2-(c) ANSWER IN BRIEF.  1. Explain physical memory and Virtual Memory.	(5)
Q-3-(A) ANSWER THE FOLLOWING.	(3)
<ol> <li>Who Developed Unix?</li> <li>What is the extension for a shell script file?</li> <li>Name any two Unix file system types.</li> </ol>	
Q-3-(B) ANSWER IN BRIEF.	(2)
1. Explain Different types of shells in Unix.	
Q-3-(c) ANSWER IN BRIEF.	(5)
1. Write a short note on VI Editor.	
<ul> <li>Q-3-(A) ANSWER THE FOLLOWING.</li> <li>1. The Bourne shell written by?</li> <li>2. BASH Stands for</li> <li>3. How many Types of Permission in Linux?</li> </ul>	(3)
Q-3-(B) ANSWER IN BRIEF.  1. Explain Following Command:  - Cat  - Passwd	(2)
Q-3-(c) ANSWER IN BRIEF.	(5)
Explain comparison command in Linux.	
<ul><li>Q-4-(A) ANSWER THE FOLLOWING.</li><li>1. What is Shell Variables?</li><li>2. Name two shell keywords.</li><li>3. Explain test command.</li></ul>	(3)
Q-4-(B) ANSWER IN BRIEF.  1. Explain Positional Parameters.	(2)
Q-4-(c)ANSWER IN BRIEF  1. Write a shell script to Display a Digital Clock.	
OR	
<ul><li>Q-4-(A) ANSWER THE FOLLOWING.</li><li>1. Which directory contains system configuration files processors?</li><li>2. How many Types of Looping Structure in Linux?</li><li>3. What is system variable?</li></ul>	(3)

Q-4-(B) ANSWER IN BRIEF.  1. Explain decision statements in UNIX.	(2)
Q-4-(c) ANSWER IN BRIEF.  1. Explain Nano Editor.	(5)
<ul> <li>Q-5-(A) ANSWER THE FOLLOWING.</li> <li>1. GPL Stands For</li> <li>2. Write syntax to add user to particular group.</li> <li>3. The UFW is an acronym for</li> </ul>	(3)
Q-5-(B) ANSWER IN BRIEF.	(2)
1. Explain the difference between LILO and GRUB.	
Q-5-(c) ANSWER IN BRIEF.	(5)
1. Explain the installation and configuration of a Samba server.	
OR	
Q-5-(A) ANSWER THE FOLLOWING.  1. Full form Of UFW  2. Wine stands for  3. List the Special three section of the smb.conf file.	(3)
Q-5-(B) ANSWER IN BRIEF.	(2)
1. Explain firewall and how to enable firewall in Linux.	
Q-5-(c) ANSWER IN BRIEF.  1. Describe the installation and working of an Apache server in Linux.	(5)

**BEST OF LUCK**