CB 60:40 Batch-2021-22

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# **BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/**

## **SPECIALIZATION IN CYBER SECURITY (CS)**

EXAMINATION: MAY-2024 SEMESTER - V

Sub: Linux/Operating system Linux (BCA-542-20/BCA-CS-542-20)

Date:	23/05/2024	Total Marks: 60	Time: 2.00 pm to 4.30 pm
	<ol> <li>Instructions:</li> <li>All questions are compulsory unless and otherwise stated.</li> <li>Bold figures to the right of every question are the maximum marks for that question.</li> <li>Candidates are advised to attempt questions in order.</li> <li>Answers written illegibly are likely to be marked zero.</li> <li>Use of scientific calculators, Log tables, Mollier Charts is allowed.</li> <li>Draw neat and labeled diagrams wherever necessary.</li> </ol>		
Q.1.	Fill in the blanks.		(05)
1.	Linux operating system is based a) UNIX c) Windows Server	b) Windows 1 d) None of Ab	0 pove
2.	The directory contains a)/ c) /boot	files required to boot the Linu b) /home d) /etc	x operating system.
3.	a)Kernel Space c) Memory Space	d its services are running in L b) User Space d) None of Ab	
<ul><li>4.</li><li>5.</li></ul>	The VIM editor has	modes of operations. b)Two d) Four	
Q.2.  1. 2. 3. 4. 5.	State True/False.  In Linux operating system file names are case sensitive.  To change the file permissions in Linux chgrp command is used.  The UID for root user in Linux is zero.  To disable the LAN card (Network Card) ifdown command is used in Linux.  To view the running processes in Linux ps command is used.		
Q.3.  1. 2. 3. 4. 5. 6.	Answer the following. (Solve at List UNIX and Linux flavors (Nat List various shells used in Linux.) Define process in Linux and list in List various commands used to slave Explain the use of touch command. List special types of file permission.	nts different states.  That down and restart the Linux and in Linux with various option	ns and examples.

### Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. Explain working of ls, cp and my commands used in Linux with options and examples.
- 2. Explain the working of useradd and passwd commands with various options and examples.
- 3. Write a short note on daemons in Linux.
- 4. Compare soflinks and hardlinks in Linux with diagram. How to create it? Give examples.
- 5. Explain the working of tar command with various options and examples.
- 6. What is the use of VIM editor in Linux? State its features, advantages and disadvantages.
- 7. What is the use of scheduling in Linux? Explain the working of crontab command with various options and examples.

### Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Explain Linux File System Hierarchy (Linux Directory Structure) with diagram in detail.
- 2. Explain the working of any four Network Management commands in Linux.