



003-3034004

Seat No. _____

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BCA (2022) Semester - 4 BACHELOR OF COMPUTER APPLICATION (W.E.F. 2022) Examination

April - 2025

CS-22 OPERATING SYSTEM CONCEPTS WITH UNIX/ LINUX

Faculty Code : 003

Subject Code : 003-3034004

Time : 2.30Hours]

[Total Marks : 70

- Q- (A) Attempt the follow 4
- 1
- 1 What is priority base preemptive?
 - 2 Give the Full form of : SJN
 - 3 The main memory is divided into equal sized blocks is known as paging. [True/False]
 - 4 What is process?
- (B) Answer in brief : (Any One) 2
- 1 What is context switching?
 - 2 What is memory allocation?
- (C) Answer in detail : (Any One) 3
- 1 Write a note on virtual memory using paging.
 - 2 Explain process state transition diagram.
- (D) Write a note on following question : (Any One) 5
- 1 Explain functions of OS.
 - 2 Explain FCFS scheduling algorithm.
- Q- (A) Attempt the follow 4
- 2
- 1 The B shell was developed by _____.
 - 2 The cut command is used to extract specific columns from the file. [True/False]
 - 3 _____ command is used to record your session.
 - 4 The { keys is used to move to the next paragraph.[True/False]
- (B) Answer in brief : (Any One) 2
- 1 Describe types of file in UNIX.
 - 2 Describe tr command.

- (C) Answer in detail : (Any One) 3
- 1 Explain VI editor cursor movement and screen control command.
 - 2 Explain UNIX file system.
- (D) Write a note on following question : (Any One) 5
- 1 Explain paste, tail, diff, write, bc commands.
 - 2 Explain types of shell in UNIX.
- Q- (A) Attempt the follow 4
- 3
- 1 What is shell?
 - 2 The \$0 Variable represents the exit status of the previous command.[True/False]
 - 3 Give full form of : GPL
 - 4 Give full form of : LILO
- (B) Answer in brief : (Any One) 2
- 1 Write a note on echo command.
 - 2 Explain PS2 and PATH system variable.
- (C) Answer in detail : (Any One) 3
- 1 Explain WHILE loop with example.
 - 2 Explain break and continue statement with example.
- (D) Write a note on following question : (Any One) 5
- 1 Write a shell scripting to check entered number is odd or even.
 - 2 Explain case ... esac with example.
- Q- (A) Attempt the follow 4
- 4
- 1 Give full form : GNOME
 - 2 Give full form: KDE
 - 3 Write steps for creating new folder in Ubuntu.
 - 4 What is window manager?
- (B) Answer in brief : (Any One) 2
- 1 Write a note on X desktop environment.
 - 2 What is startx command?
- (C) Answer in detail : (Any One) 3
- 1 Write a note on GNOME Desktop.
 - 2 Write a note on KDE.

(D) Write a note on following question : (Any One)

5

- 1 Explain elements of the Xorg.conf file.
- 2 Write note on layered structure of X windows.

Q- (A) Attempt the follow

4

5

- 1 Give full form : LDAP
- 2 Give full form : DNS
- 3 Give full form : FTP
- 4 Give full form : SMB

(B) Answer in brief : (Any One)

2

- 1 What is WINE?
- 2 What is a web services?

(C) Answer in detail : (Any One)

3

- 1 Write a note on DNS.
- 2 Write a note on firewall.

(D) Write a note on following question : (Any One)

5

- 1 Explain Installing and Managing Samba Server.
- 2 Explain Installing and Managing Apache Server.