

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2025 [NEW COURSE]****Operating Systems Concepts with Unix / Linux(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Attempt the following. (03)
- 1) What is an OS?
 - 2) SJF stands for _____
 - 3) FCFS stands for _____
- Que.1(B) Attempt the following (Any two) (06)
- 1) Explain functions of OS.
 - 2) Explain Real time operating system.
 - 3) Explain noncontiguous memory allocation in brief.
 - 4) Discuss Virtual memory using paging.
- Que.1(C) Attempt the following (Any one) (05)
- 1) List various process scheduling algorithms. Explain any one.
 - 2) What is process? Explain process state transition diagram.
- Que.2(A) Attempt the following. (03)
- 1) _____ command is gives a listing of all files in current directory.
 - 2) _____ command is used to display listing of users.
 - 3) _____ command is used to terminate a process.
- Que.2(B) Attempt the following (Any two) (06)
- 1) Write features of Unix.
 - 2) Explain cut, paste and join with example.
 - 3) Explain file and directory permission in Unix.
 - 4) Explain mail and news command.
- Que.2(C) Attempt the following (Any one) (05)
- 1) Explain types of shell in Unix.
 - 2) Explain modes in VI editor.
- Que.3(A) Attempt the following. (03)
- 1) CUI stands for _____
 - 2) IFS stands for _____
 - 3) Which system variable shows your user name?
- Que.3(B) Attempt the following (Any two) (06)
- 1) Write features of Linux.
 - 2) Discuss test command with example.
 - 3) Explain use of set, unset and echo command.
 - 4) Explain logical operator with example.
- Que.3(C) Attempt the following (Any one) (05)
- 1) Explain Decision statements.
 - 2) Describe GNU, GPL concept in brief.
- Que.4(A) Attempt the following. (03)
- 1) GUI stands for _____
 - 2) KDE stands for _____
 - 3) GNOME stands for _____

- Que.4(B) Attempt the following (Any two) (06)
- 1) Explain desktop environment of layered structure of X.
 - 2) What is the purpose of window manager?
 - 3) Explain KDE panel.
 - 4) Explain how to rename and copy files and folders.
- Que.4(C) Attempt the following (Any one) (05)
- 1) Explain install/ uninstall software on Ubuntu.
 - 2) Explain GNOME desktop.
- Que.5(A) Attempt the following. (03)
- 1) LDAP stands for _____
 - 2) WINE stands for _____
 - 3) FTP stands for _____
- Que.5(B) Attempt the following (Any two) (06)
- 1) Write a note on Samba server.
 - 2) Explain DNS services.
 - 3) Explain how to configure Ubuntu's built in Firewall.
 - 4) Discuss optimization of LDAP services.
- Que.5(C) Attempt the following (Any one) (05)
- 1) Explain FTP services and web services.
 - 2) Write a note on working with WINE.
