24CS-BCAP-MA-04-10001

Seat No. _____

BACHELOR OF COMPUTER APPLICATION-CS Examination

BCA - CS SEMESTER-4 APRIL 2026 (NEP) APRIL - 2026

CS-24: OPERATING SYSTEMS CONCEPTS WITH UNIX/LINUX

Faculty Code : 11

Subject Code : 24CS-BCAP-MA-04-10001

Time : 2 Hours] **[Total Marks : 50**

Q.1 (A) Attempt the following. 3

(1) Which command is used to list files in linux.

(2) What does the pwd command do?

(3) What is the use of the cd command?

Q.1 (B) Attempt any one of the following. 2

(1) Explain functions of operating system.

(2) What is threads? Explain types of threads.

Q.1 (C) Atempt any one of the following. 5

(1) What is process? Explain process state diagram.

(2) Explain batch opeating system in detail.

Q.2 (A) Attempt the following. 3

(1) Which command is used to remove file?

(2) What is is the use of mkdir command?

(3) Which one is the pattern finding command.

Q.2 (B) Attempt any one of the following. 2

(1) What is deadlock? Explain.

(2) Explain contiguous memory allocation.

Q.2 (C) Attempt any one of the following. 5

(1) What is virtual memory? Explain.

(2) Explain round robin algorithm in detail.

Q.3 (A) Attempt the following. 3

(1) What does chmode command do?

(2) What is the use of cmp command?

(3) What is is the use of join command?

Q.3 (B) Attempt any one of the following. 2

(1) Explain unix architechture.

(2) Explain process related command.

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Q.3 (C) Attempt any one of the following. 5

(1) Write a short note on types of shell.

(2) What is file? Explain types of file.

Q.4 (A) Attempt the following. 3

(1) Give the name of vi editor mode.

(2) Which key is used to move cursor up in vi editor.

(3) Which key is used to move cursor left in vi editor.

Q.4 (B) Attempt any one of the following. 2

(1) Explain various shell variables.

(2) Explain test command.

Q.4 (C) Attempt any one of the following. 5

(1) Explain if-fi with suitable syntax and example.

(2) Explain logical operators.

Q.5 (A) Attempt the following. 3

(1) What is the full form of GUI?

(2) What is the full form of CUI?

(3) What is the full form of LILO?

Q.5 (B) Attempt any one of the following. 2

(1) What is samba server? Explain.

(1) Give the difference between open source and free source.

Q.5 (C) Attempt any one of the following. 5

(1) Explain linux booting process.

(2) What is wine? Explain.

::: END OF EXAM :::

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