



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) Attempt any one of the following. 5
- (1) What is process? Explain process state diagram.
 - (2) Explain batch operating system in detail.
- Q.2 (A) Attempt the following. 3
- (1) Which command is used to remove file?
 - (2) What 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 chmod command do?
 - (2) What is the use of cmp command?
 - (3) What is the use of join command?
- Q.3 (B) Attempt any one of the following. 2
- (1) Explain unix architecture.
 - (2) Explain process related command.

- 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** ...