

(FOR THE CANDIDATES ADMITTED

SUBJECT CODE **24 UCT 412**

DURING THE ACADEMIC YEAR 2024-25 ONLY)

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY– 2026

B.Sc. – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

IV SEMESTER

TIME : 3 HOURS

PART – III

LINUX PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Which feature allows multiple users to access Linux simultaneously?
a) Multitasking b) Multiuser capability c) Portability d) Security
2. What is the purpose of the cal command?
a) Display current time b) Show calendar c) Calculate numbers d) Clear screen
3. Which command deletes an entire line?
a) D b) dw c) dd d) x
4. What is the purpose of the `if` conditional statement in shell scripting?
a) Loop execution b) Decision making c) Variable declaration d) File creation
5. What is the role of a System Administrator?
a) Write application programs b) Manage users and system resources
c) Design hardware d) Create databases

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is meant by file play in Linux?
7. What is the Boot Block in a file system?
8. Which symbol is used to run a process in the background?
9. How do you execute a shell script?
10. What is system operation?

(CONTD 2)

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe the hardware requirements for installing Linux.
(OR)
b) List any five miscellaneous Unix commands.
12. a) Explain how files are stored in a Linux file system.
(OR)
b) Interpret the use of links in Linux and DOS.
13. a) Demonstrate search, find, replace, and block operations in Vi.
(OR)
b) Compare foreground and background processes in Linux.
14. a) Describe the creation and execution of a shell script.
(OR)
b) Demonstrate the use of cd, merging streams, and expr commands.
15. a) Explain the booting and shutting down process in Linux.
(OR)
b) Explain the process of creating device files.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Examine the salient features of Linux such as multiuser, multitasking, and security.
(OR)
b) Interpret file and directory permissions in Unix.
17. a) Apply disk-related commands to check disk usage.
(OR)
b) Apply file viewing and compression commands.
18. a) Interpret the use of the set command and customization in Vi.
(OR)
b) Explain changing process priorities and scheduling in Linux.
19. a) Compare if, case, while, and for statements in shell scripts.
(OR)
b) Show the use of eval and shell programs in automation.
20. a) Interpret the use of super user (su) status.
(OR)
b) Apply disk management commands like fsck, df, mount, and unmount.