

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2024**

**COURSE NAME: B.C.A
SEMESTER: III**

MAXIMUM MARKS: 75
TIME : 3 HOURS

PART - III

OPERATING SYSTEM & LINUX

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Name the Process state.
 7. What is critical region?
 8. Mention the role of process control subsystem.
 9. What are the basic Components of Linux?
 10. What is LILO?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Discuss the evaluation of Operating system.
(OR)
b) Explain the Reduced Instruction Set computing(RISC).

12. a) How are the process created and terminated? Explain.
(OR)
b) Outline the Unix process scheduling.

13. a) Explain the Auxiliary storage management in operating system.
(OR)
b) Give an overview of file organization.

(CONTD.....2)

14. a) What is filter? Illustrate all filters with appropriate example.

(OR)

b) Give the importance of local and global shell variable.

15. a) What are the file types available in Linux? Discuss file operators with suitable example.

(OR)

b) Discuss the creation and execution in shell programming.

SECTION – C

(5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Briefly explain storage management in storage hierarchy.

(OR)

b) Give the idea of process synchronization.

17.a) Elaborate the FIFO scheduling.

(OR)

b) Write a note on Processor scheduling levels.

18. a) List and explain the desirable features of a good distributed file system.

(OR)

b) Describe the characteristics of Disk scheduling policies.

19.a) Explain the different modes of Vi editor.

(OR)

b) What are the different ways of setting file permission?

20.a) With a simple Shell script, explain the use of break and continue commands.

(OR)

b) Write about the Logical Operators in Linux shell.
