

S.C.No.—2214503

B.C.A. EXAMINATION, Dec. 2024

(Fifth Semester)

(Main) (Batch 2022-23)

INTRODUCTION TO LINUX

22BCA503

Time : 3 Hours

Maximum Marks : 80

**Note :** Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Write answer of any *eight* questions :  $8 \times 2 = 16$
- (a) What is Linux ?
  - (b) Name any four linux Distros.
  - (c) Define Shell.
  - (d) What is the use of text editor ?
  - (e) What is the role of the linux Kernel in the O.S. ?
  - (f) What is BASH ?

- (g) What is LILO ?
- (h) What is INODE ?
- (i) What are advantages of open source ?
- (j) Define file locking.

**Unit I**

2. Write short notes on the following :
- (i) What is importance of the GNU Project ?
  - (ii) Free Software.
  - (iii) Proprietary Software
  - (iv) VIM Editor.
3. (a) Describe in details the characteristics of Linux Operating System. 8
- (b) Difference between Unix and Linux Operating System. 8

**Unit II**

4. (a) What is Command Shell ? How BASH different from DOS command prompt. 8

#### Unit IV

8. (a) What are the various process states in Linux ? Explain the process management system calls. 8
- (b) What is Process Scheduling in Linux ? Discuss various types of process scheduling in Linux. 8
9. Write short notes on the following (any *four*) :
- (i) Deadlocks
  - (ii) Unreliable signals
  - (iii) Fork Process and Zombie Process
  - (iv) File Locking
  - (v) Kill function. 4×4=16

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