Bachelor of Computer Applications 4ᵗʰ Semester

(2042)

OPERATING SYSTEM CONCEPTS AND LINUX

Paper : BCA-16-404

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :— Attempt **one** question each from Sections A to D. Question No. 9 (Section E) is compulsory. All questions carry equal marks.

SECTION—A

1. What do you understand by operating system ? Draw the difference between Multi-processing and multi-tasking systems.   13

2. What is CPU Scheduling ? Describe FCFS and SJF CPU scheduling algorithms in detail.   13

SECTION—B

3. Define deadlock. Explain different methods of handling deadlocks in detail.   13

4. What do you understand by virtual memory ? Explain any two page replacement algorithms with suitable examples.   13

SECTION—C

5. What is LINUX ? Explain any five commands of LINUX with proper syntax. 13

6. How can you change permissions of files and directories in LINUX ? Explain with suitable examples. 13

SECTION—D

7. Who is super user ? Explain the duties of super users with the commands of LINUX. 13

8. What do you mean by VI editor ? Explain the working of VI editor in detail. 13

SECTION—E

(Compulsory Question)

9. Write short notes on the following :

    (a) cp command 3

    (b) swapping 2

    (c) who command 2

    (d) kill command 2

    (e) wildcards 2

    (f) grep command. 2