(i) **Printed Pages : 2**   Roll No. ....

(ii) **Questions** : 9   **Sub. Code :** | 0 | 9 | 4 | 0 |

Exam. Code : | 0 | 0 | 3 | 0 |

Bachelor of Computer Applications 4ᵗʰ Semester
1059
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 is Process ? Explain various process states with diagram.
13

2. Define Operating System. Compare and contrast parallel systems and distributed systems.
13

SECTION—B

3. What do you mean by demand paging ? Discuss various page replacement algorithms.
13

4. What is Deadlock ? Explain necessary and sufficient conditions for deadlocks.
13

SECTION—C

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

6. What do you mean by redirection ? Explain its use in Linux with examples.
13

SECTION—D

7. What is backup ? How backup can be taken in Linux ? Explain with examples. 13

8. What do you mean by vi editor ? Explain features of vi editor. 13

SECTION—E

(Compulsory Question)

9. Write short notes on the following :

    (a) ps command 3

    (b) grep command 2

    (c) Multilevel feedback queue scheduling 2

    (d) Virtual memory 2

    (e) Environment variables 2

    (f) Kernel. 2