(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

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