

(i) Printed Pages : 2

Roll No. ....

(ii) Questions : 9

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Exam. Code : 

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**Bachelor of Computer Applications 4<sup>th</sup> 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 |