

B.C.A.- I (CBCS Pattern) Semester-II
UBCAT204 - Paper-IV - Operating System and Linux

P. Pages : 2

Time : Three Hours



GUG/S/25/11715

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answer and write answer relevant and specific to questions any.

Either :

1. a) Explain the function and Role of operating system. 8
- b) Explain computer system operation in detail. 8

OR

- c) Explain the concepts of Batch processing in detail. 8
- d) Explain the following 8
 - i) Storage structure
 - ii) Storage hierarchy.

Either :

2. a) What is process? Explain types of process. 8
- b) Explain message passing model in detail. 8

OR

- c) What is file management? Explain in detail. 8
- d) Explain system call? What happen when a system call is executed. 8

Either :

3. a) Write down the application of Linux operating system. 8
- b) Explain the rules of define or naming files and directions. 8

OR

- c) Explain following commands with its Syntax. 8
 - i) mkdir ii) rmdir
 - ii) ls iv) cat
- d) Explain Vi-editor with its Inbuilt commands. 8

Either :

- 4.**
- a) What is Shell programming? What are the rules for defining the shell variable. **8**
 - b) Explain the following **8**
 - i) Ps ii) Kill
 - iii) Sort iv) e grep

OR

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| c) | Write a shell script which accept a number from Keyboard and display that number is odd or even. | 8 |
| d) | Explain Chmod command along with its syntax and all option available and example. | 8 |
| 5. | Solve all the questions. | |
| a) | Explain Time sharing operating system. | 4 |
| b) | Explain Device management in brief. | 4 |
| c) | Explain Text editing in detail. | 4 |
| d) | Explain shell parameters in detail. | 4 |
