

B.Sc.-II (Information Technology) (CBCS Pattern) Semester - III  
**UBITT302 - Paper-II : Operating System & Linux**

P. Pages : 2

Time : Three Hours



**GUG/S/23/10928**

Max. Marks : 40

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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 answers and write answers relevant and specific to questions only.

**Either**

1. a) What are function of Operating System ? Explain. 4
- b) Explain time sharing system in detail. 4

**OR**

- c) What is batch processing system ? List any two advantages and disadvantages of it. 4
- d) Explain dual mode operation. 4

**Either**

2. a) What is protection system ? Explain. 4
- b) Define system call in detail. 4

**OR**

- c) Explain main memory of system. 4
- d) What do you mean by process management ? Explain. 4

**Either**

3. a) Write down any four features of Linux. 4
- b) Explain following Linux commands. 4

- |         |        |
|---------|--------|
| i) Cat  | ii) mv |
| iii) cp | iv) ln |

**OR**

- c) Explain following commands 4

i) Ls	ii) mkdir
iii) cd	iv) cat
- d) Write down about bourne shell. 4

**Either**

4. a) Write shell script that takes two number from keyboard and display their sum. 4
- b) Explain 4
- i) sort and ii) grep command

**OR**

- c) Explain chmod command with all possible option available. 4
- d) Write shell script to check number is positive or negative or zero. 4
5. Attempt **all** the questions.
- a) Explain real time system in brief. 2
- b) Explain file system management service of operating system. 2
- c) Explain pwd command in Linux. 2
- d) Explain ps command in linux. 2

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