

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

P. Pages : 2

Time : Three Hours



GUG/W/24/10928

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answer related to question.

Either:

1. a) Discuss I/O Memory and CPU protection in detail. 4
- b) Write a short note on: 4
- i) Storage hierarchy ii) I/O Interrupt.

OR

- c) Explain any two types of operating system. 4
- d) List and explain the functions of operating system. 4

Either:

2. a) What is system structure? Explain the layered structure approach. 4
- b) Write a note on command Interpreter system. 4

OR

- c) List the various operations on process. 4
- d) What are the major activities of main memory management? 4

Either:

3. a) Explain the structure of linux operating system. 4
- b) Write a note on: 4
- i) mkdir ii) rmdir
- iii) mv iv) rm

OR

- c) Discuss the shell concept in detail. 4
- d) List any two commands available in vi-editor. 4

Either:

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|-----------|-----|--|----------|
| 4. | a) | Explain nested-if statement with suitable example. | 4 |
| | b) | Write a note on following. | 4 |
| | i) | grep | |
| | ii) | egrep | |

OR

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|-----------|-----|--|----------|
| | c) | Discuss the following permission modes. | 4 |
| | i) | chmod | |
| | ii) | chown | |
| | d) | Explain shell variables and different types of shell variable. | 4 |
| 5. | | Solve all questions. | |
| | a) | Differentiate between primary storage and secondary storage. | 2 |
| | b) | Explain various attributes associated with file. | 2 |
| | c) | List the various role of system Administrator. | 2 |
| | d) | Write a shell script to check whether the given number is even or odd. | 2 |
