

Bachelor of Computer Application - I Second Semester (Old)
2BCA6-Paper-IV : Principles of Operating System and Linux

P. Pages : 2

Time : Three Hours



GUG/W/18/1104

Max. Marks : 80

- 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 answers related to questions.

Either

1. a) Explain the time sharing and Real time processing in detail. 8
- b) Explain various computer system operations in detail. 8

OR

- c) Explain the following : 8
 - i) Storage Structure
 - ii) Storage Hierarchy
- d) Explain the I/O Interrupt in detail. 8

Either

2. a) Explain file I/O system and Networking in detail. 8
- b) What is system calls ? Explain in detail system calls. 8

OR

- c) Explain the concept of simple layered approach in system structure. 8
- d) Explain the following. 8
 - i) File Manipulation
 - ii) Device Manipulation

Either

3. a) Explain the directory structure & different types of directory list in LINUX. 8
- b) What are the advantage & disadvantage of Linux operating system. 8

OR

- c) Explain the following commands : 8
 - i) mv
 - ii) Cat
 - iii) mkdir
 - iv) rmdir
- d) What is a shell script ? What purpose does it serve in a Linux system ? Explain with example. 8

Either

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| 4. | a) | Explain the different pipe & filters related command with example. | 8 |
| | b) | Explain the use of Ps & kill command with example. | 8 |

OR

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|----|----|--|---|
| | c) | Explain control flow statement in shell script. | 8 |
| | d) | Explain the input and output statement supported by shell script in Linux. | 8 |
| 5. | | Solve all the questions. | |
| | a) | Explain Distributed operating system. | 4 |
| | b) | What is process ? Explain its types. | 4 |
| | c) | Explain the system administrator in brief ? | 4 |
| | d) | Describes all the three predefined shell variable in Linux ? | 4 |
