

B.Sc. (Information Technology)-II Third Semester (Old)
BScIT234 - Principles of Operating System & Linux Paper - IV

P. Pages : 2

Time : Three Hours



GUG/W/18/1438

Max. Marks : 80

Notes : 1. All questions are compulsory and carry equal marks.

- 1.** Either
- a) Write note on General system architecture. **8**
 - b) Explain in brief. **8**
 - i) Storage structure.
 - ii) Storage hierarchy.
- OR**
- c) What is operating system? Explain its purpose and functions. **8**
 - d) What is Interrupt? Explain the I/O interrupt in detail. **8**
- 2.** Either
- a) Write short notes on file I/O system. **8**
 - b) What is mean by process? Explain its types. **8**
- OR**
- c) Explain in detail. **8**
 - i) Information Maintenance.
 - ii) Communication.
 - d) What is command Interpreter? Explain the purpose of command Interpreter. **8**
- 3.** Either.
- a) Explain Role and responsibilities of system Administrator in detail. **8**
 - b) What is shell? Explain the Bourne shell & korn shell in detail. **8**
- OR**
- c) Write short notes on. **8**
 - i) Vi editor.
 - ii) C – shells.

d) What are shell Meta characters? Explain advantages of shell meta characters. 8

4. Either.

a) What is shell scripts? Explain variables used in it. 8

b) Write a short note on "ps" and "kill". 8

OR

c) Explain the following commands. 8

i) cd

ii) cp

iii) pwd

iv) cat

d) Write a shell program to accept roll no., mark, and division and write to a file. 8

5. Attempt all the questions.

a) Discuss CPU protection. 4

b) Explain secondary storage management in brief. 4

c) Explain the directory structure in Linux. 4

d) Write a note on 'grep' and 'egrep'. 4
