

B.Sc. - I CBCS Pattern Semester-II
USCST03 - Computer Science Paper-I (Operating System & Linux)

P. Pages : 2

Time : Three Hours



GUG/W/23/11576

Max. Marks : 50

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.
 4. Assume the data when and wherever necessary.

Either:

1. a) What are the main purposes of an operating system? 5
- b) Discuss on I/O Interrupt. 5

OR

- c) List benefits of an operating system. Explain any one. 5
- d) Describe CPU Protection in brief. 5

Either:

2. a) Demonstrate Main Memory management. 5
- b) What do you mean by process. Explain various types of process in brief. 5

OR

- c) Write a note on major activities of File Manipulation. 5
- d) Discuss on Process Management. 5

Either:

3. a) What is Directory? Explain directory structure in brief. 5
- b) Demonstrate the given commands: - 5
 - i) \$cat rat
 - ii) \$cat > keyuri
 - iii) \$cat < hema anil surya
 - iv) \$cat angha wanshi >> wasera
 - v) \$cat himani Eshani Samyak > Hospital

OR

- c) Give syntax, purpose with option and example of rm command. 5
- d) Discuss on Bourne-Shell in detail. 5

Either:

4. a) Demonstrate the given instruction and clarify it: 5
`$grep -y "abc" new[xyz]`
- b) Write down the shell script that takes three numbers as an input and appear the calculated average. 5

OR

- c) Describe the purpose of PS and kill in brief with appropriate syntax. 5
- d) Write down the shell script to find the greater number from given three numbers. 5
5. All questions are compulsory.
- a) "Without operating system computer is as dead". Illustrate the given statement. 2½
- b) Write a note on information maintenance. 2½
- c) Give the meaning of:- 2½
`$ more - 12 wanshi.txt`
- d) Write a note on if statement with syntax and example. 2½
