

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

P. Pages : 2

Time : Three Hours



GUG/S/25/11576

Max. Marks : 50

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat & 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) Explain real time operating system with its advantages. 5
- b) Enlist the main purpose of an operating system. 5

OR

- c) Describe CPU protection in brief. 5
- d) What do you mean by Real Time Operating System. 5

Either:

2. a) Write a short note on command Interpreter system. 5
- b) Describe main memory and its function. 5

OR

- c) Explain Networking as a system component. 5
- d) Write a note on major activities of file manipulation. 5

Either:

3. a) Define Directory? Explain directory structure in brief. 5
- b) Explain C-shell in detail. 5

OR

- c) Demonstrate the following commands 5
 - i) \$ cat pat
 - ii) \$ cat > sham
 - iii) \$ cat < sham anil sunil
 - iv) \$cat punit ram >> shilpa
 - v) \$ cat Anil Sunil Sham > college.
- d) Discuss the Bourne-shell in detail. 5

Either:

4. a) Explain if-else statement with example. 5
- b) Explain sort command with purpose, syntax & example. 5

OR

- c) Demonstrate the given instruction and clarify it 5
\$grep-y "abc" new [xyz]
- d) Write shell script to take three numbers as input and display the average of three numbers. 5
5. All questions are compulsory.
- a) What is parallel operating system? Explain. 2½
- b) Write a note on information communication. 2½
- c) Explain ls and CD command. 2½
- d) Explain variables in shell script. 2½
