

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

P. Pages : 2

Time : Three Hours



GUG/W/22/11576

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.

Either :

1. a) What is Real Time operating system? Explain in detail. 5
b) Discuss on concepts of batch operating system. 5

OR

- c) Describe the I/O memory in detail. 5
d) Describe the storage structure. 5

Either :

2. a) What is secondary storage? Explain its overall management by operating system. 5
b) Discuss on command interpreter system. 5

OR

- c) What is Device Management? Explain. 5
d) Discuss on following system components of operating system. 5
i) Protection system. ii) Networking

Either :

3. a) What is Directory? Explain Directory structure in brief. 5
b) Demonstrate the meaning of each of the following. 5
i) \$cat rat
ii) \$mv Vijaya jambh
iii) \$cp Lokesh kurud wadra/usr/users/Bhupendra
iv) \$rm -r jugnala
v) \$rmdir Vijaya samyak himani

OR

c) Explain about Naming of files and Directories with example. 5

d) Discuss on C-shell in detail. 5

Either :

4. a) Demonstrate the following with output by considering the data in bhim.txt to clear the concept. 5

`$sort -r <bhim.txt`

b) Explain sort command with syntax and example. 5

OR

c) Write down the shell script to find product of three variables. 5

d) Discuss the chmod command in brief. 5

5. a) List the characteristics of operating system. 2½

b) What do you mean by protection system. 2½

c) Give the meaning of
`$more -5 anilsurya.txt` 2½

d) Write a short note on ps command. 2½
