

PGD BIN Sem.-1 Examination

PGD BIN-402

Linux and System Development

February-2025

[Max. Marks : 70]

Time : 2-30 Hours]

Qu1 : a. Explain briefly the features of features and architecture of Linux (7 Marks)
 b. Explain briefly atleast 4 file commands and file comparison commands (7 Marks)

OR

Qu1 : a. Explain briefly the how directories are organized in Linux and their functions. (7 Marks)
 b. Describe the ls command and its options with examples (7 Marks)

Qu2 : a. Explain briefly the meta characters * and ?. How they are used with commands in Linux (7 Marks)

b. Explain briefly the date command and the different format options in the command (7 Marks)

OR

Qu2 : Answer the following :

a. Explain briefly redirection in linux using examples (7 Marks)

b. Briefly explain what are filters. Explain the cat filter and wc filter (7 Marks)

Qu3 : a. Explain briefly the grep filter its metacharacters and options using examples (7 Marks)

b. Explain briefly how pipes are used in linux. Write the commands to do the following: (7 Marks)

1. Show all files in the current directory with their size and names only

2. Show only the header from data.fasta

3. Show only the sequence from data.fasta

OR

Qu3 : a. Explain briefly the cut filter and its options using examples (7 Marks)

b. Explain briefly the head, tail, less and more commands (7 Marks)

Qu4 : a. Explain briefly the curl and wget commands in Linux using examples (7 Marks)

b. What are shellscripts. How they are used and executed.

Write a shell script to input a string and print its length (7 Marks)

OR

Qu4 : a. Explain briefly the awk command using examples. (7 Marks)

b. Write a awk script to print the Name Age Eligible (7 Marks)

The file is (Name, Age) separated by comma.

Eligible is 'Y' if age is greater than 18 or 'N' if less

Qu5 : Attempt any 7 (14 Marks)

1. Write the ls command to show the detailed contents of the etc directory and all its subdirectories.

2. Write the command to display 7 and 9 columns from data.txt which is a comma separated file

3. Write command to show all the lines in the file data.txt with line numbers which contains word 'group'

4. Write command to show all lines in data.txt that begins with an alphabet followed by a number

5. Write command to show all the unique lines from the file data.txt

6. Write command to show all the files in the works directory which begin with the letter 'B' and end in '.txt'

7. Write the command to show the student list in data.txt (name, class) in ascending order of name

8. Write the sed command to delete all lines containing the word 'book' from data.txt

9. Write the sed command to print every alternate lines from data.txt

10. Write the date command to show only the time

11. Write the awk command to show the contents from data.csv(Sno, Title, Author, Pages) show only the Title, Author where Pages is greater than 150

12. Write the chmod command to give rwx permission to the owner and r-x permission to group and others for the file data.sh