(Pages : 2) **051 BCA 013—APRIL—22—324**

FIRST SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2022

(NEP–DSCC–1)

INTRODUCTION TO LINUX (Theory)

Time : Two Hours Maximum : 60 Marks

Part A

I. Answer any *five* questions. Each question carries 2 marks :

1 Define Unix operating system. What is Kernel and shell ?

2 List and define file categories.

3 Which are the commands used in Vi-Editor insert mode ?

4 Difference between Internal and External command.

5 Descdribe the use of tee command.

6 Define script command with example.

(5 × 2 = 10 marks)

Part B

II. Answer any *four* questions. Each question carries 5 marks :

7 List and explain features of unix operating system.

8 Explain the following commands with syntax :

(a) Cat. (b) CP.

(c) rm. (d) ls.

(e) mv.

9 Describe absolute way of changing file permission using chmod command.

10 What are the three modes of Vi-editor ? Explain with help of diagram.

11 Specify the commands for the following operations with example :

(a) Repeating last command.

(b) Searching for a pattern.

(c) Substitution.

(4 × 5 = 20 marks)

2

Turn over

Part C

III. Answer any *three* questions. Each question carries 10 marks :

12 Explain the working of following commands :

(a) echo.
(b) head.
(c) bc.
(d) man.
(e) who.

13 Explain file system organization in Unix with diagram.

14 Write the shell programs :

(a) Write a shell scripts which counts the number of lines in a file.

(b) To generate Fibonacci series.

15 What is the use of us command ? List and explain seven attributes of file.

(3 × 10 = 30 marks

3690 – A22 – BCA – F – 21

FIRST SEMESTER B.C.A. (CBCS-DSC) DEGREE EXAMINATION, FEBRUARY 2021

INTRODUCTION TO LINUX

(New)

(Theory)

Time : 3 Hours] [Max. Marks : 80

Answer any **10** *questions from* **Part - I.**
Answer any **6** *questions from* **Part - II.**
Answer any **3** *questions from* **Part - III.**

Part I – (Marks: $10 \times 2 = 20$)

Answer any **ten** *questions. Each question carries* **two** *marks.*

1. List the components of Unix.
2. Explain cal command with example.
3. What is file in Unix?
4. What are hidden files?
5. Define wild cards in Unix.
6. How to change ownership and group ownership of a file?
7. Explain touch command with example.
8. Define editor.
9. Explain undoing command in vi-editor.
10. What are the advantages of grep command?
11. Explain read command with example.
12. What is the meaning of $? in shell scripting?

Part II – (Marks: $6 \times 5 = 30$)

Answer any **six** *full questions. Each carries* **5** *marks.*

13. Explain the following commands:
    (a) wc
    (b) man
14. What is the use of ls command? Explain 7 attributes of a file.
15. How to change read, write, and execute permissions? Explain with example.
16. With a neat diagram explain 3-modes of vi-editor.

[P.T.O.

17. Describe metacharacters and their meaning.
18. List and explain options associated with grep command.
19. Explain PATH, HOME and TERM system variables.
20. List the advantages of set command.
21. Write a shell script program to find area of a circle.

Part III – (Marks: $3 \times 10 = 30$)

Answer any **three** *full questions. Each carries* **ten** *marks.*

22. (a) Explain file system organization in Unix with diagram.
    (b) Describe the difference between absolute path name and relative path names.
23. Explain the following commands with example.
    (a) echo (b) split (c) head (d) tail (e) lp
24. List and explain file comparison commands with syntax and example.
25. Write the shell programs.
    (a) To generate Fibonacci series.
    (b) To find factorial of a given number.
26. Explain conditional control structures. $5 + 5 = 10$
    [if, if-else, if-else-if].

7717—A22—BCA—Feb. 2023

(Pages : 2)

FIRST SEMESTER B.C.A. DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2023

INTRODUCTION TO LINUX

Time : Three Hours

Maximum : 80 Marks

Answer any **ten** *questions from Part I.*
Answer any **six** *questions from Part II.*
Answer any **three** *questions from Part III.*

Part I

Answer any **ten** *questions.*
Each question carries 2 marks.

1. What is Kernel ?
2. What is hidden file in UNIX ?
3. How can you remove a file in UNIX ?
4. What are cut and paste command ?
5. What is the use of help command in UNIX ?
6. List and explain UNIX wild-card characters.
7. What are the three modes of Vi editor ?
8. What is Vi editor in UNIX ?
9. What is Shell Script ?
10. What is the use of sleep command in UNIX ?
11. Define branching in UNIX with example.
12. Define expression in UNIX.

(10 × 2 = 20 marks)

Part II

Answer any **six** *questions.*
Each question carries 5 *marks.*

13. Explain any *five* features of UNIX.

14. Explain following commands :

    (i) print f.

    (ii) script.

    (iii) mailx.

    (iv) passwd.

    (v) who

15. What are file attributes ? Explain briefly.

16. Explain the use of Wild-Card characters with syntax and example.

17. Discuss editing commands in Vi editor.

18. Explain with example loop control structure in UNIX.

19. Explain :

    (i) gzip and gunzip.

    (ii) zip and unzip.

20. Explain grep and egrep.

21. Explain how to change password in UNIX.

(6 × 5 = 30 marks)

Part III

Answer any **three** *questions.*
Each question carries 10 *marks.*

22. Explain the UNIX architecture with neat diagram.

23. Explain UNIX file system in detail.

24. Explain different modes of Vi editor.

25. Explain sed and fgrep commands with example in detail.

26. Explain Branching Control in UNIX with example in detail.

(3 × 10 = 30 marks)

8051 – F23 – VIS BCA – S – 21

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, SEPTEMBER 2021

(Revised)

INTRODUCTION TO UNIX

Time : 3 Hours] [Max. Marks : 80

Answer any **five** *full questions.*

1. a) Explain the UNIX Architecture with a neat diagram.
   b) Explain features of UNIX. 8 + 8 = 16

2. a) Explain the following command with example.
      i) Cal ii) printf iii) mailx iv) Script
   b) What is file? Explain ordinary file and Directory file. 8 + 8 = 16

3. a) Explain the following commands with respect to file.
      i) pwd ii) mkdir iii) cat iv) mv
   b) Explain the following compressing and archiving of files.
      i) gzip and gunzip (.gz)
      ii) zip and unzip (.zip) 8 + 8 = 16

4. a) With a neat diagram, explain the three modes of VI editor.
   b) What is shell? Explain pattern matching using wildcards with example. 8 + 8 = 16

5. a) Define process. Explain the mechanism of process creation.
   b) Explain the following commands related to process.
      i) ps ii) nice iii) kill iv) cron 8 + 8 = 16

6. a) Explain the concepts of relative permission and absolute permission with respect to file.
   b) What is Link? Explain types of links with example. 8 + 8 = 16

7. a) Explain the commands used in UNIX for communication purpose.
   b) Explain the following commands.
      i) pr ii) sort iii) head iv) grep 8 + 8 = 16

8. Write short notes on (any 4).
   a) Chgrp & chmod.
   b) Internal and external command.
   c) /dev/null and/dev/tty
   d) WC
   e) Pipes. 4 × 4 = 16

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CHETAN COLLEGE OF COMMERCE & BCA, HUBLI

B. Com & BCA Internal Assessment Test - II, Jan 2023

INTRODUCTION TO LINUX

Class: BCA I Semester **Marks: 25** **Time: 1 Hour**

Section - A

Answer all five from the following. **1X5 = 5**

1. Explain sed command and give one example.
2. What is ownership of files?
3. Define Regular Expression and give an example.
4. Explain text replacement in vi-editor.
5. Mention metacharacters and their meaning with example for each.

Section - B

Answer any two of the following. **5X2 = 10**

6. Write a shell script program to find number of directory files and ordinary files in the current direc
7. A) Name the text-editing commands in vi-editor
   B) Specify the commands for the following operation with example
      i) Substitution ii) quitting the vi editor
8. Explain the following Commands
   a) umask b) chgrp c) touch d) ad e)chown

Section - C

Answer any one of the following. **10X1 = 10**

9. What is vi-editor and explain modes of vi editor with a neat diagram.
10. A) Explain the commands of grep family.
    B) What is ls command? List and explain all file attributes.

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