US – 653

IV Semester B.C.A. Examination, May 2017
(Y2K8 Scheme)
COMPUTER SCIENCE
BCA 406 : UNIX Programming

Time : 3 Hours Max. Marks : 70

SECTION – A

Answer **any 10** questions : **(10×1=10)**

1. Write the difference between UNIX and DOS operating system.
2. How to link files in UNIX ?
3. What is the use of cal command ?
4. Mention different types of file permissions available in UNIX.
5. How to decrease priority of a process.
6. Mention any two disk related commands.
7. What is a filter ?
8. What are the different types of variables available in UNIX ?
9. What is the use of set command ?
10. What is the function of write command ?
11. What is file encryption ?
12. What is the use of PSI ?

SECTION – B

Answer **any five** questions : **(5×3=15)**

13. What are the two types of UNIX commands ?
14. Explain the various usage of cat command.
15. Explain any three options used with PS command.
16. What is the significance or back quote in command line ?
17. Explain expr command with an example.
18. What are the features of awk command ? Explain.
19. Explain the difference between finger and WHO command.
20. Write any three duties of system administrator.

P.T.O.

SECTION – C

Answer **any five** questions : **(5×7=35)**

21. Describe various blocks in UNIX file system.

22. Explain different types of processes in UNIX.

23. Explain any four directory related commands.

24. Differentiate break and continue with an example.

25. Explain the following files command.
    a) Uniq **2**
    b) Cut **2**
    c) Sort **2**
    d) Tail. **1**

26. Explain sending and receiving mail in UNIX.

27. Write a program to print prime number between m and n (m < n).

28. What is positional parameter ? Explain different positional parameters available in UNIX.

SECTION – D

Answer **any one** question : **(1×10=10)**

29. a) Explain case statement with an example. **5**
    b) Explain mounting of a file system. **5**

30. a) Explain with an example how test command is used with files. **5**
    b) Explain grep command with example. **5**

US – 642

IV Semester B.C.A. Examination, May 2017
(F+ R) (CBCS) (2015-16 and Onwards)
COMPUTER SCIENCE
BCA-406 : Unix Shell Programming

Time : 3 Hours Max. Marks :70

***Instruction** : Answer **all** the Sections.*

SECTION – A

I. Answer **any ten** questions : **(10×2=20)**

1) Mention any two features of Unix Operating System.

2) Differentiate the following commands :
   a) bc and xcalc
   b) uname and Hy.

3) What is a wild card ? Mention any one purpose of wild card.

4) Explain any two process creation command in Unix.

5) Define Disk partitioning.

6) Write any two options of cut command with an example.

7) Mention any two types of shells.

8) Explain the usage of back quote.

9) What are the different shell variables available in Unix Operating System ?

10) Write the syntax of if-then-else-fi statement with an example.

11) Mention any two functions of system administrator.

12) What is distributed file system ?

P.T.O.

SECTION – B

II. Answer **any five** questions : **(5×10=50)**

13) a) Explain unix architecture with a neat diagram.

b) Explain the following commands with Syntax and example.

1) pwd 2) mkdir

3) cal 4) cp

5) tput **(5+5)**

14) a) What is a file system ? Explain the basic types of files in Unix.

b) Explain the various purpose of cat command. **(5+5)**

15) a) Explain the different types of processes in Unix Operating System.

b) Explain process related commands in Unix O.S. **(5+5)**

16) a) Explain u limit and all the options of df and du commands.

b) Define filter. Explain any 4 filter commands with Syntax and example. **(5+5)**

17) a) Write a note on awk programming.

b) Write a shell script to find the number of occurrences of a particular character in a given string. **(5+5)**

18) a) Explain different types of tests used in shell script with an example.

b) Explain *ls* command with different options. **(5+5)**

19) a) Explain positional parameters in Unix Shell Programming.

b) Write a note on Unix System Communication Commands. **(5+5)**

20) a) Explain different privileges of a system administrator.

b) Explain user management in Unix O.S. **(5+5)**