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

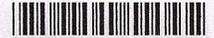Time : 3 Hours

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)

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