



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 ?

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## 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)**