



MS – 574

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IV Semester B.C.A. Examination, May 2016  
(CBCS) (Fresh) (2015 – 16 & Onwards)  
COMPUTER SCIENCE  
BCA – 404 : 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) List the different part of a unix file system.
- 2) What is the use of echo command ?
- 3) What are the two different types of unix command ?
- 4) What is the function of unlimit command ?
- 5) What is an interrupt ?
- 6) What is a wildcard ? Why are they used ?
- 7) What is the use of mkfs command ?
- 8) What is a filter ?
- 9) Explain the concept of pipe.
- 10) What are positional parameters ? Write the function of any two positional parameters.
- 11) What is finger and merg command ?
- 12) What is file encryption ? How do you encrypt a file ?

SECTION – B

II. Answer **any five** questions.

(5×10=50)

- 13) a) Explain unix architecture with a neat diagram.  
b) Explain salient features of unix operating system. (5+5)
- 14) a) What are the different modes of setting file permissions ? Explain with an example.  
b) Compare Kernel mode versus user mode. (5+5)

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- 15) a) Explain different loop control structures available in unix.  
b) Write a shell program to print all prime numbers between m and n ( $m < n$ ). (4+6)
- 16) a) Explain mounting and demounting of files. (5+5)  
b) Explain the types of shell variables.
- 17) a) Explain the domain name system.  
b) Explain the tar command in unix.  
c) Explain the cpio command. (3+4+3)
- 18) a) Describe the compression and decompressing techniques of files in unix.  
b) Explain disk related commands. (5+5)
- 19) a) Write note on SED command.  
b) Explain the use of grep command. (6+4)
- 20) a) Explain different states of process with a diagram. 5  
b) Write a shell script to display all the file types and file permissions. 5
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