



MS – 574

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)**

P.T.O.



- 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.  
b) Explain the types of shell variables. (5+5)
  - 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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SECTION-B

(5x10=50)

(8+8)

(5+5)

P.T.O.