



142F587012

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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