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).
   
16) a) Explain mounting and demounting of files.
   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.

18) a) Describe the compression and decompressing techniques of files in unix.
   b) Explain disk related commands.

19) a) Write note on SED command.
   b) Explain the use of grep command.

20) a) Explain different states of process with a diagram.
    b) Write a shell script to display all the file types and file permissions.