SM – 621

IV Semester B.C.A. Examination, May/June 2018
(F + R) (CBCS) (2015-16 and Onwards)
COMPUTER SCIENCE
Unix Shell Programming

Time : 3 Hours Max. Marks : 70

Instruction : *Answer **all** the Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **two** marks : **(10×2=20)**

1) Differentiate Kernel and shell.
2) Define inode.
3) What is the use of scale function ?
4) What do you mean by zombie process ?
5) What is the use of PS command ?
6) Briefly explain format and fdformat commands.
7) What is sed ?
8) What is signal ? Give the names of any two signals in UNIX.
9) What is the significance of expr command ?
10) Write the syntax of while statement in shell programming.
11) What is the use of finger command ?
12) Define system administrator.

SECTION – B

II. Answer **any five** questions. **Each** question carries **ten** marks : **(5×10=50)**

13) a) Explain the various usages of cat command with examples.
    b) Illustrate PCB. **(5+5)**
14) a) Describe df, du and ulimit commands.
    b) What is filter ? Explain any four filter commands with examples. **(5+5)**

P.T.O.

15) a) Explain file encryption and decryption in UNIX.

b) Describe the different modes of vi editor. **(5+5)**

16) a) What is the use of chmod command ? Differentiate absolute and symbolic modes with examples.

b) Explain the types of shell variables with examples. **(5+5)**

17) a) Illustrate positional parameters with examples.

b) Write a shell script to reverse a given number and check whether it is palindrome or not ? **(5+5)**

18) a) Describe branching control structures in shell programming with examples.

b) Explain write and wall commands. **(5+5)**

19) a) Explain user management in UNIX.

b) Write a shell script to count the number of vowels in a given string. **(5+5)**

20) a) Describe tar command in UNIX.

b) Write a shell script to display all the file types and file permissions in the current directory. **(5+5)**
