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.  
14) a) Describe df, du and ulimit commands.  
    b) What is filter? Explain any four filter commands with examples.  

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)