



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)

