GS-640

VI Semester B.C.A. Examination, May/June - 2019

COMPUTER SCIENCE

BCA 404 Unix Shell Programming

(F+R) (CBCS) (2015-16 and Onwards)

Time : 3 Hours

Max. Marks : 70

Instructions to Candidates : *Answer **all** the Sections.*

SECTION - A

I. Answer **any 10** questions. Each question carries **2** marks.   **10x2=20**

1. What is the use of who and nice command ?

2. What do you mean by zombie process ?

3. Mention different modes of vi editor ?

4. What is the use of wall and mail command ?

5. What is the significance of expr command ?

6. What are daemons ?

7. Write the syntax of while command.

8. Write the functions of cat command.

9. Mention different nodes.

10. Mention different types of shell.

11. Write the uses of head and tail command .

12. What is distributed file system ?

P.T.C

SECTION - B

II.   Answer **any 5** questions. Each question carries **10** marks.   **5x10=50**

13. (a)   Explain unix architecture with a neat diagram.   **5+5**

(b)   Explain df, du and ulimit commands.

14. (a)   Explain different states of process.   **5+5**

(b)   Explain different blocks in file system.

15. (a)   What is filter? Explain any four filter commands with an example. **5+5**

(b)   Explain is command with different options.

16. (a)   Write a note on awk programming.   **5+5**

(b)   Explain positional parameters with an example.

17. (a)   Describe branching control structures in shell programming with **5+5** example.

(b)   Explain types of shell variables with example.

18. (a)   Explain nohup command.   **5+5**

(b)   Explain the following commands :

(i)   pwd

(ii)   mk dir

(iii) cut

(iv) cat

(v)   grep

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

(b)   Write a shell script to check whether a given number is palindrome or not.

5+5

20. (a)   Describe tar command in Unix.

(b)   Explain disk related commands.

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