



GS-651

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

COMPUTER SCIENCE

**BCA-406 : UNIX Programming
(Y2K8 Scheme)**

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1. **Section - A, B, C** is common to **all**.
2. **Section D** is applicable to the students who have taken admission from 2012-13 onwards.

SECTION - A

Answer **any ten** questions. Each question carries **one** mark.

10x1=10

1. Define Kernel.
2. List the different parts of a unix system.
3. What is the use of echo command ?
4. What is PID ?
5. What are the different wildcards available in unix ?
6. What is a pipe ?
7. What is interrupt ?
8. Mention the different modes of Vi editor ?
9. Give the syntax of if statement.
10. What is the use of wall command ?
11. What is the use of Mesg Command ?
12. What is mail command used for ?

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SECTION - B

Answer **any five** questions. Each question carries **three** marks.

5x3=15

13. Explain different types of files in Unix.
14. Explain the use of > and >> operators in unix.
15. Explain process scheduling commands.
16. Explain the Ls command with different options.
17. Explain unix system calls with example.
18. Explain any 3 different types of shell.
19. Write a shell program to find whether a given number is odd or even.
20. Explain any three super-user privileges.

SECTION - C

Answer **any five** questions. Each question carries **seven** marks.

5x7=35

21. Explain with a neat diagram the unix system architecture.
22. Explain salient features of unix O.S.
23. Explain the different blocks in a file system.
24. What is a Filter ? Explain the filter commands with example.
25. Explain compression and decompressing technique in unix.
26. What is a process ? Explain different states of process.
27. What is control statement ? Explain case-esac statement with syntax.
28. Write a shell script to find the factorial of a number.



SECTION - D

Answer **any one** question. Each question carries **ten** marks.

1x10=10

- 29.** Explain role of System Administrator.
- 30.** Explain the following commands with syntax :
- (a) tar
 - (b) wall
 - (c) chmod
 - (d) nice
 - (e) batch

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