



MS – 581

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IV Semester B.C.A. Examination, May 2016
(Y2K8 Scheme)

COMPUTER SCIENCE

BCA 406 : Unix Programming

(70 Marks – 2012-13 and Onwards / 60 Marks – Prior to 2012-13)

Time : 3 Hours

Max. Marks : 60/70

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

SECTION – A

Answer **any 10** questions :

(10×1=10)

1. What is the purpose of WHO command ?
2. Write any two file compression commands.
3. Which command is used for creating links in UNIX ?
4. What is a daemon process ?
5. Differentiate between ls and ps commands.
6. Name the command used to make the file system in Unix.
7. Mention the different types of processes in Unix.
8. What are positional parameters ?
9. What is the use of PS1 ?
10. What is command substitution ?
11. What is the function of write command ?
12. What is Domain Name System ?

SECTION – B

Answer **any five** questions :

(5×3=15)

13. Explain UNIX command format with an example.
14. What is meant by input/output redirection ? Give an example.

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15. With a diagram explain the different states of a process.
16. Explain mounting of file system in Unix.
17. Explain the concept of piped process.
18. What is a shell ? Explain features of any two types of shell.
19. Write a shell script to find whether the given year is a leap year or not.
20. Explain the function of finger command.

SECTION – C

Answer **any five** questions :

(5×7=35)

21. Explain the salient features of Unix.
22. What are the different modes of setting file permissions ? Explain with examples.
23. Explain the different blocks in Unix File System.
24. Explain process scheduling commands in detail.
25. a) How is disk formatted in Unix ? 3
b) Explain the function of df and du commands. 4
26. What is a filter ? Explain any three filter commands with examples.
27. What is a test command ? Explain different types of test classes.
28. a) What are the roles of system administrator ?
b) Explain tar command.

SECTION – D

Answer **any one** question :

(1×10=10)

29. a) With a neat diagram, explain the Unix system architecture. (5+5)
b) Explain the Inode Structure.
 30. a) Explain the different looping statements used in shell programming with example. (6+4)
b) Write a shell program to find factorial of a number.
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