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Reg. No.

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IV Semester B.C.A. Degree Examination, August/September - 2023

COMPUTER SCIENCE

Unix Shell Programming

(CBCS Scheme, Repeaters)

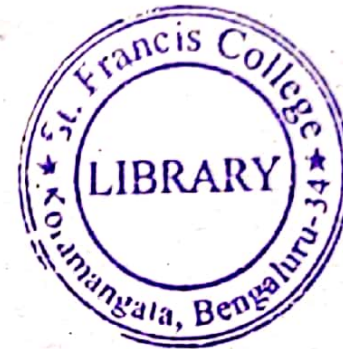
Time : 3 Hours

Maximum Marks :70

Instructions to Candidates:

Answer ALL the Sections.

SECTION - A



I. Answer any TEN questions

(10×2=20)

1. What are system calls?
2. Differentiate between "uname" and "tty" commands.
3. Mention the contents of an INODE.
4. What are the different components of file system?
5. Name any two types of shell.
6. What is a Kernel?
7. What are Daemon processes?
8. Differentiate between "Wall" and "Write" Command.
9. What is Zombie process?
10. Mention the different modes of Vi editor.
11. What is the use of "Who" Command?
12. What is DNS?

[P.T.O.]



SECTION - B

II. Answer any FIVE questions

(5×10=50)

13. a) Explain the salient features of unix operating system.
b) Explain with a neat diagram the architecture of unix operating system. (5+5)
14. a) Explain “grep” command with an example.
b) Explain “Cat” command with examples. (5+5)
15. a) Explain any 3 filter commands with examples.
b) What are the different method of setting permissions to a file ? (5+5)
16. a) Explain with a neat diagram the different states of process.
b) Explain disk related commands. (5+5)
17. a) Write a shell script to find the factorial of a number.
b) Explain different looping control structures in unix. (5+5)
18. a) Explain “sed” and “awk” tools in UNIX.
b) What are wildcard characters? Explain its uses. (5+5)
19. a) Write a shell script to print all the Prime numbers between “m” and “n”.
b) What are the responsibilities of a system administrator ? (5+5)
20. a) Explain “sort” command with examples.
b) Explain directory related commands with examples. (5+5)
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