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Reg. No.

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**III Semester B.Voc. (IT) Degree Examination, March/April - 2021**  
**INFORMATION TECHNOLOGY**

**Unix Shell Programming**  
**(CBCS Scheme)**

**Paper : BOIT1 - CO25 - 305**

**Time : 3 Hours**

**Maximum Marks : 70**

**Instructions to Candidates:**

Answer all sections.

**SECTION - A**

**I. Answer any TEN questions. Each question carries TWO marks.**

**(10×2=20)**

1. What is the use of Kernel in Unix Operating System?
2. Give the history of Unix.
3. What is absolute path name and relative path name?
4. What are the system calls?
5. How to define and invoke functions in shell scripts.
6. Explain echo command.
7. What is the need for file permissions?
8. Write the syntax for if else - if statement in shell programming.
9. List the environment variables in shell programming.
10. Write a shell script for find whether a given year is leap year or not.
11. What is positional parameter?
12. Discuss the usage of wall command.

**[P.T.O.]**



(2)  
SECTION - B

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II. Answer any FIVE questions. Each question carries TEN marks. (5×10=50)

13. a) Discuss the salient features of Unix operating system. (6)
- b) Explain the following commands with example
- i. echo
  - ii. cs
  - iii. who
  - iv. date (4)
14. a) With a neat diagram, explain the architecture of unix operating system. (6)
- b) Mention the difference internal and external commands in unix. (4)
15. a) Explain the different types of files available in Unix. (5)
- b) With a neat diagram, explain parent child relationship with respect to unix file system. (5)
16. a) What is Shell script? Write a shell program to print a string in the reverse order. (6)
- b) Write a shell script to demonstrate if rm-r, uniq, tail, cmp commands. (4)
17. a) What is a process? Explain process creation mechanism. (5)
- b) Write and explain syntax of while and for loops in shell programming. (5)
18. a) Explain the different modes of Vi editor. (5)
- b) Explain how the text is entered and replaced in input mode of Vi editor. (5)
19. a) Discuss briefly sort command with its option. (5)
- b) List and explain grep command. (5)
20. Write a short note on
- a) Duties and privileges of system administrator. (4)
  - b) Domain name system (3)
  - c) Daemons in Unix. (3)