AM/DS 213 (R-22)

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II/IV B. Tech. DEGREE EXAMINATIONS, AUGUST - 2024

First Semester

AM / DS

UNIX PROGRAMMING

Time : **Three Hours** Maximum : **70** Marks

Answer ONE Question from each Unit. 5x14=70 M

All Questions carry equal marks.

UNIT - I

1. a) What is UNIX ? List out various versions of UNIX ?

   b) Explain the following UNIX commands :

   (i) sort (ii) join (iii) chmod (iv) uniq.

(OR)

2. a) Explain about features of Unix.

   b) Explain the following UNIX commands :

   (i) compress (ii) mount (iii) umask (iv) who

UNIT - II

3. a) Define shell. List and explain functions of shell.

   b) Explain about the positional parameters.

(OR)

4. a) Write a shell program to demonstrate the arithmetic operations between two numbers.

   b) Explain about Build in shell commands and shell programs.

UNIT - III

5. List and explain the miscellaneous file management system call with example programs.

(OR)

6. Explain about regular file management system call with example.

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UNIT - IV

7. a) Explain about the terminating a process with example.

   b) Discuss the command used in UNIX to change and print terminal line settings with atleast three possible options.

(OR)

8. a) What is init process ? Explain the role of fork() in process creation.

   b) What are the different properties that are inherited by the child from its parent ? Explain them.

UNIT - V

9. a) What is signal ? List and demonstrates about signals in detail ?

   b) Explain about semaphores with an example.

(OR)

10. a) Discuss in detail about named pipe with example program.

    b) Explain about suspending and resuming process with example.