B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2018

CS-22 : Operating System Concepts with Linux / Unix

(Old Course)

Faculty Code : 003

Subject Code : 003410

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   Attempt the following Question :   **20**

(1)   Full form of FCFS.

(2)   Full form of UNIX.

(3)   Full form of SRTN.

(4)   Full form of SJF.

(5)   Full form of CUI.

(6)   Full form of GRUB.

(7)   Full form of DNS.

(8)   Full form of BIOS.

(9)   Which command is used to copy a file?

(10) Which command is used to remove file?

(11) Which command is used to create a directory in Linux?

(12) Which command is used to list out directory and files?

(13) Which command is used to display a file contents in octal form?

(14) Which command is used to sort the lines of data in a file in reverse order?

(15) Which command is used to display the top of the file?

(16) Who is the developer of C Shell?

(17) What is Virtual Memory?

(18) What are the uses of date Command?

(19) The agency that sits between the user and the UNIX system is called the ....

(20) The first Process Launch by Linux Kernel is ....

2 (a) Attempt the following Question : (any **three**)   **6**

   (1) Explain History of Linux.

   (2) Explain Process Life Cycle Diagram.

   (3) Explain types of Shell.

   (4) What is turnaround time?

   (5) Define Primitive Scheduling and Throughput.

   (6) What is paging ?

   (b) Attempt the following Question : (any **three**)   **9**

   (1) Explain any two communications Command.

   (2) Explain Process Scheduling algorithm FCFS with Example.

   (3) Explain System Variable, Shell Variable and user variable with example.

   (4) Write a shell script program to enter any number and check the number is odd or even.

   (5) Write a shell script program to enter any year and check that year is leap year or not.

   (6) Explain Samba Server.

   (c) Attempt the following Question : (any **two**)   **10**

   (1) Explain Linux Booting Process.

   (2) Explain Case structure in shell scripting with Example.

   (3) Explain if statement in shell scripting with Example.

   (4) Explain Gnome Desktop.

   (5) Explain Startx Command.

3 (a) Attempt the following Question : (any **three**)   **6**

   (1) Explain sort Command.

   (2) Explain Features of OS.

   (3) Explain Round Robin Scheduling Policy.

   (4) Explain Test Command and Logical Operator.

   (5) What is CPU SCHEDULING?

   (6) Explain WINE Software.

(b) Attempt the following Question : (any **three**)   9

    (1) Explain any two Process Related Command.

    (2) Explain DNS Services in Linux.

    (3) Explain Fire wall services in Linux.

    (4) Explain FTP Services.

    (5) Explain Feature of Linux.

    (6) Write a shell script to calculate the average of given number.

(c) Attempt the following Question : (any **two**)   10

    (1) Write a Shell scripting to enter any file and check that file in directory or not.

    (2) Write a Shell Scripting to sum of number given by User.

    (3) Write a Shell scripting to enter any number and display the factorial of that number.

    (4) Write a Shell Scripting to find Palindrome number.

    (5) What is Windows Manager? Explain Types of it.

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