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

March / April - 2019

CS - 22 : Operating System Concept with Unix/Linux

Faculty Code : 003

Subject Code : 003410

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

1 Answer the following :   **20**

(1) What is memory management ?

(2) The FCFS implementation is based on FIFO queue. (true/false)

(3) Bill Joy was developed the "C Shell" in _____year.

(4) Give full form of : PMT.

(5) What is waiting time ?

(6) What is process ?

(7) The first fit algorithm is fastest algorithm because it searches as little as possible. (True/False)

(8) _____ command is display all the users are currently logged into the system.

(9) _____ command user can change the last modification time and last access time of the file.

(10) Give full form of : BSD.

(11) What is scheduling ?

(12) _____ command is used to delete the file.

(13) Give full form of : SMT.

(14) Give full form of : Od.

(15) The finger command is display the information about the users who are the currently logged in. (True/False)

(16) What is priority based scheduling ?

(17) Round Robin is a non-preemptive process scheduling algorithm. (True/False)

(18) Give full form of : GRUB.

(19) Give full form of : IFS.

(20) Give full form of : LDAP.

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

(1) What is shell ?

(2) What is open source ?

(3) What is preemptive scheduling ?

(4) What is telnet ?

(5) List the different types of permissions in UNIX.

(6) What is startx command ?

(b) Attempt the following : 9
   (1) Write a note on LILO.
   (2) Explain different types flavour of IF statement in UNIX with example.
   (3) Explain types of files in UNIX.
   (4) Explain SJF algorithm.
   (5) Describe DNS.
   (6) Explain First Fit algorithm.

(c) Attempt the following : (any **two**) 10
   (1) Explain Round Robin scheduling algorithm.
   (2) Write a note on installing and managing Samba server.
   (3) Explain features of UNIX.
   (4) Explain mkdir, chmod, tail, sort, cal command in UNIX.
   (5) Explain GRUB.

3 (a) Attempt the following : (any **three**) 6
   (1) What is GUI and CUI ?
   (2) Explain in brief Built-in-Firewall in Ubuntu ?
   (3) What is non-preemptive scheduling ?
   (4) What is freeware?
   (5) List the KDE start menu items.
   (6) What is contiguous memory allocation ?

(b) Attempt the following : (any **three**) 9
   (1) Explain process state transaction diagram.
   (2) Explain FCFS scheduling algorithm.
   (3) Explain types of shell in UNIX.
   (4) Explain LDAP.
   (5) Write a note on GNOME desktop.
   (6) Write a note on managing Apache server,

(c) Attempt the following : (any **two**) 10
   (1) Explain Cron and Crontab, Mound and Unmount command in UNIX.
   (2) Explain VI editor modes.
   (3) Write a note on FTP services and web services.
   (4) Write a shell script program to enter five subject marks and calculate sum and find result pass or fall, if pass then calculate average of them.
   (5) Write a shell script program to find the numbers of line, the numbers of word and the numbers of character in the file.