

NAY-003-003404 Seat No. _____

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

March / April - 2017

CS - 22 : Operating System Concepts With Unix Linux

(Old Course)

Faculty Code: 003

Subject Code: 003404

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

Instructions: Write Down All Answers in Main Answer Sheet.

1 Short questions:

- **20**
- (1) Give one name of Open Source Operating System.
- (2) Full form of TCP/IP is _____.
- (3) Full form of FCFS is ______.
- (4) Full form of SJF is _____.
- (5) What is the meaning of Kernel?
- (6) Which symbol is used to represent root directory in Linux operating system?
- (7) What is the full form of LILO?
- (8) What is the full form of GRUB?
- (9) "mail," is a communication command. TRUE or FALSE.
- (10) By default, which web browser is provided by Red Hat Linux.
- (11) Which player provides Linux for Entertainment?
- (12) In Linux, which window provides to open a command console in a graphical interface?

- (13) When user logged in as an administrator with root as username, which symbol will display on the screen?
- (14) 'In vi editor, the last command line displays which name?
- (15) What will be the output of this command? "Is s*t"
- (16) Who is a command language interpreter?
- (17) Which command displays the calendar of March 2017?
- (18) Which command used to display list and information of the users currently logged in to the system?
- (19) Which command used to return, to the command prompt?
- (20) Which command is used to count the number of lines, words and characters in the specified file or files?
- 2 (A) Answer any THREE from the following:

- 6
- (1) Explain the meaning of Operating System?
- (2) What is process state transition diagram?
- (3) Explain Contiguous Memory Allocation.
- (4) List out types of Shell.
- (5) Explain chmod and chown command.
- (6) What will be the use of touch and tail command?
- (B) Answer any THREE from the following:

9

- (1) Write down and explain various functions of operating system.
- (2) Write a short note on Round Robin Method.
- (3) Give difference between Physical Memory and Virtual Memory.
- (4) Explain Unix Architecture with its features.
- (5) Write a short not on types of files in Unix.
- (6) How to change password in Unix Operating System? Explain.

- 10 (C) Answer any TWO from the following: Explain Time Sharing Operating System. (1) **(2)** Give difference between Multi Processing, Multi Tasking and Multi Threading OS. Write a detailed note on Virtual Memory using (3) Paging. **(4)** Write a detailed note on Virtual Memory using Segmentation. Write a note on Unix File and Directory (5)permissions. (A) Answer any THREE from the following: 6 **(1)** What is vi editor? (2) Explain redirection. Explain piping. (3) What are positional parameters? (4) **(5)** Explain any two Logical Operators with example. (6) Give difference between shell keyword and shell variable. (B) Answer any THREE from the following: 9 **(1)** Explain following commands. cat, cd, mv, chown, wc, touch Explain the use of case esac in shell script with (2) example.
 - (3) Explain cursor movements.
 - (4) How to mount and demount a file in Unix?
 - (5) Share your knowledge about GNOME & KDE in linux.
 - (6) Unix/Linux is used to develop games. Justify the statement in your own ideas.

3

(C) Answer any TWO from the following:

10

(1) Write a shell script to display the following output.

1

2 3

4 5 6

7 8 9 10 Input n for number of lines.

- (2) Write a shell script that display prime numbers from 1 to 100 numbers.
- (3) Write a shell script that displays the use of nested if.
- (4) Write a shell script to read a file.
- (5) Write a shell script to display the use of parameters.

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