



RAJ-003-00340100

Seat No. _____

B. C. A. (Sem. IV) (CBCS) (W.I.F. 2016) Examination

March / April - 2019

CS - 22 : Operating System Concepts with Unix/Linux

Faculty Code : 003

Subject Code : 00340100

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Attempt following questions : 4
- (1) Round Robin is _____ scheduling algorithm.
 - (2) When Process needs input/output then it will move in _____ state.
 - (3) How many entries per page are there in the PMT ?
 - (4) Which type of OS is generally used to operate particular device ?
- (b) Attempt any **one** question : 2
- (1) What is O.S ? List out its features.
 - (2) Explain concept of Memory Fragmentation.
- (c) Attempt any **one** question : 3
- (1) Explain process state transition diagram.
 - (2) Time sharing O.S. with example.
- (d) Attempt any **one** question : 5
- (1) Write a note on virtual memory and its types.
 - (2) Write a note on priority based scheduling techniques.

- 2 (a) Attempt following questions : 4
- (1) The hidden files can be listed out with _____ command.
 - (2) _____ redirection operator is used to append content to a file.
 - (3) Which is the default directory to store device files in UNIX ?
 - (4) By default, Kill command uses _____ numbered signal to stop process.
- (b) Attempt any **one** question : 2
- (1) Types of files in UNIX.
 - (2) File comparison commands.
- (c) Attempt any **one** question : 3
- (1) Explain concept of Mounting and demounting file system in UNIX.
 - (2) Various modes in VI editor.
- (d) Attempt any **one** question : 5
- (1) Draw and explain UNIX Architecture.
 - (2) Explain following commands
 - (1) Step
 - (2) Cut
 - (3) ls
 - (4) umask
 - (5) Script
- 3 (a) Attempt following questions : 4
- (1) Full form of GRUB.
 - (2) Full form of MBR.
 - (3) _____ command is used to delete variable from shell script.
 - (4) echo \$0 returns _____.

- (b) Attempt any **one** question : **2**
- (1) Explain concept of Positional parameters.
 - (2) Define : Freeware
- (c) Attempt any **one** question : **3**
- (1) File structure of Linux.
 - (2) Write note on system variables of UNIX.
- (d) Attempt any **one** question : **5**
- (1) Note on Linux Boot Loaders.
 - (2) Write a shell script to check whether a number is prime or not.
- 4 (a) Attempt following questions : **4**
- (1) Write syntax to install a package in linux.
 - (2) Full form of GNOME.
 - (3) Write syntax to add a user to particular group.
 - (4) Use of startx command.
- (b) Attempt any **one** question : **2**
- (1) What is the purpose of window manager ?
 - (2) What are the basic window management functionalities ?
- (c) Attempt any **one** question : **3**
- (1) Configuring X-window.
 - (2) Write commands to create, delete, copy and list files and folders.
- (d) Attempt any **one** question : **5**
- (1) Explain layered structure of X window system.
 - (2) Write a note on KDE and GNOME desktop environments.

- 5 (a) Attempt following questions : 4
- (1) The UFW is an acronym for _____.
 - (2) Which package is used to install FTP server on ubuntu ?
 - (3) WINE stands for _____.
 - (4) What is the meaning of Sudo ?
- (b) Attempt any **one** question : 2
- (1) Types of users in Ubuntu.
 - (2) Optimizing LDAP services.
- (c) Attempt any **one** question : 3
- (1) Installing and configuring WINE.
 - (2) How to work with a pache server in linux ?
- (d) Attempt any **one** question : 5
- (1) Write a note on working with SAMBA server.
 - (2) Optimizing and working with FTP services.
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