Exam.Code:0459 Sub. Code: 3606

2022

M.Sc. Information Technology First Semester

MS-66: Linux Administration and Programming

Time allowed: 3 Hours

Max. Marks: 80

NOTE: Attempt <u>five</u> questions in all. including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I-IV.

x-x-x

<u>UNIT - I</u>

	<u> </u>		
I.	a) Discuss installation of Linux from CD-ROM?		(6)
	b) Differentiate between input redirection and output redirection	with	suitable
	examples. c) What is the purpose of shutdown command?		(6) (4)
II.	Explain the following in the context of Linux:		7.7
	and another appropriate and another and another and another another and another another another and another an		(5)
	b) Installing and configuring LILO		(5)
	c) Environment variables used by shell		(4)
	d) kill command		(2)
	<u>UNIT - II</u>		
III.	a) Write a short note on following Linux file types:-		
	i) Block devices		
	ii) Sockets		
	iii) Hard links		(6)
	b) What is the difference between absolute path and relative path?		(4)
	c) Discuss the following bash command		
	i) alias		
	ii) history		
	iii) fg		(6)
			3 2
IV.	a) Discuss the purpose of following commands:-		
	i) umask		
	ii) chown		
	iii) chgrp	ĵ	(7)
	b) Discuss important directories in the Linux file system.		(6)
	c) What is a hidden file in Linux?		(3)
UNIT - III			

UNIT - III

- V. a) Write a shell script which deletes all lines containing the word Perl in the file supplied as argument to this shell script.
 - b) Write a shell script to reverse a five digit number input through keyboard. (2x8)

As a Linux System Administrator, how do you perform the following? VI. a) Creating a new file system. b) Compressing files c) Setting the system name d) Setting of DNS (4x4)<u>UNIT - IV</u> a) Write a Perl program to demonstrate replacing elements in an array. VII. (8) b) What is a function? How arguments are passed to a function? (4)c) Discuss various assignment operators available in pearl? (4) Explain the working of following system calls with the help of suitable code VIII. a) umask() b) create() c) fork() d) sleep() (4x4)<u>UNIT - V</u> IX. Attempt the following:a) What is the purpose of fdisk command? b) What is the purpose of netstat command in Linux? c) What is a root directory? d) What is the purpose of rm-i command? e) How will you search and replace text in vi -editor? f) What are various modes used by vi-editor? g) Which command is used to setup a Linux client? h) What is the use of pg command? (8x2)