

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Advanced Linux	Semester: IV
Program: B.Tech (CS+DevOps)	Time 03 hrs.
Course Code: CSDV2003	Max. Marks: 100

Instructions:

SECTION A

S. No.	Question	Marks	CO
Q 1	List and explain any five duties of Linux administrator.	5	CO1
Q2	Explain the importance of /etc and /bin directory.	5	CO2
Q3	“Operating systems like Unix/Linux provide services both for programmers and users”. Justify this statement with suitable example.	5	CO1
Q4	Determine whether the Linux system to have multiple desktop environment installed?	5	CO1

SECTION B

Q5	Write the necessary steps to install a new package and uninstall a package with Red Hat Package Manager.	10	CO3
Q6	Define the process to create, modify, delete user & group account in Linux	10	CO2
Q7	Explain the following networking tools in brief: (a) ping (b) nslookup (c) telnet (d) arp	10	CO4
Q8	List the various permissions used for files and directories in Linux? How can you change the permissions using chmod. chgrp. chown commands?	10	CO2

SECTION-C

Q 9	a) Write a bash shell script which will receive any number of filenames as an arguments. The shell script should check whether every argument supplied is a file or directory. If it is a directory, it should be appropriately reported. If it is a filename than the name of the file as well as number of lines present in it should be reported. b) Define the i-node structure of Linux file system.	15+5= 20	CO1, CO4
Q10	Explain the details the advanced package tool (APT) and Yellowdog updatel modifier(YUM) <p style="text-align: center;">OR</p> What is redirection? Explain error redirection with suitable example? “Redirecting output can destroy the file” comment on this statement?	20	CO3, CO2

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SECTION A

S. No.		Marks	CO
Q 1	“Linux OS are more secure than windows OS”. Justify this statement with suitable example.	5	CO1
Q2	Write a shell scripts to print Fibonacci series by using control structures?	5	CO2
Q3	What is the difference between umask and ulimit.	5	CO4
Q4	What are the drawbacks of using a symbolic link instead of hard link.	5	CO2

SECTION B

Q 5	Explain the working of GRUB. How it is different from Linux loader.	10	CO3
Q6	Write the necessary steps to install a new package and uninstall a package with Red Hat Package Manager.	10	CO3
Q7	Define shell script? How shell programs are executed? Write different types of shells in Linux programming along with advantages.	10	CO4
Q8	Explain the importance of root accounts and how it is differ from other user accounts	10	CO1

SECTION-C

Q 9	a) Explain the following commands groupmod i) Chgrp ii) groups iii) newgrp iv) vigr b) Define the i-node structure of Linux file system.	16+4= 20	CO1, CO4
Q10	Explain the difference between the high level and low level package management tools for CentOS and its derivatives. <p style="text-align: center;">OR</p> Which steps should you take before performing an upgrade on a mission critical server?	20	CO3, CO2