Name:

**Enrolment No:** 



**Semester: IV** 

Time 03 hrs.

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2019** 

**Course: Administering Open Source Systems** 

Program: B.Tech CS SPZ. OSS

Course Code: CSOS 2002 Max. Marks: 100

	SECTION A		
S. No.		Marks	CO
Q 1	What is a shell? Explain with neat diagram also discuss different shell types?	4	CO1
Q 2	Demonstrate environment variables in linux?	4	CO2
Q 3	What do you understand by command line editing? Explain with example?	4	CO3
Q 4	Analyze pipes in linux? Explain it with neat diagram?	4	CO4
Q 5	Explain different run levels in linux? Explain with example?	4	CO2
	SECTION B		
Q 6	Analyze different steps to compile a new kernel? How would you create a local repository for YUM?	10	CO4
Q 7	Explain UMASK in linux? Explain in detail with applications?	10	CO5
Q 8	Summarize different process managing utilities? Explain any four process utilities?	10	CO3
Q 9	Explain different types of backups in linux? Explain "dump", "restore", "tar" utilities?		
	OR		
	What are two ways you can execute a shell script when you do not have execute access permission for the file containing the script? Can you execute a shell script if you do not have read access permission for the file containing the script?	10	CO3
	SECTION-C		
Q 10	Create a crontab file that will regularly perform the following backups:  a. Perform a level 0 backup once per month.  b. Perform a level 2 dump one day per week.  c. Perform a level 5 dump every day on which neither a level 0 nor a level 2 dump is performed.  In the worst-case scenario, how many restore commands would you have	20	CO5

Q 11	When it puts files in a <b>lost+found</b> directory, fsck has lost the directory information for the files and thus has lost the names of the files. Each file is given a new name, which is the same as the inode number for the file:  \$ \begin{align*} \	20	CO4
	OR		
	Explain in detail SAMBA file system? Also explain its features and steps to configure it?		

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**Instructions: Attempt all questions** 

	SECTION A		
S. No.		Marks	CO
Q 1	How do you find which processes are using a particular file?	4	CO
Q 2	Explain environment variables in linux?	4	CO
Q 3	What do you understand by command line editing? Explain with example?	4	CO
Q 4	Some filenames are preceded by a dot. Explain its significance?	4	CO3
Q 5	Analyze redirection? Explain error redirection with suitable example? "Redirecting output can destroy the file" comment on this statement?	4	CO3
	SECTION B		
Q 6	What are different steps to compile a new kernel? How would you create a local repository for YUM?	10	CO4
Q 7	When I look at a list of files and directories, the names are followed by something like -rw-rw-r or lrwxrwxrwx. What does this mean?	10	COS
Q 8	Explain process managing utilities? Explain any four process utilities?	10	CO2
Q 9	What happens when you give the following commands if the file named <b>done</b> already exists?  \$ cp to_do done  \$ mv to_do done	10	COL
	OR  What are two ways you can execute a shell script when you do not have execute access permission for the file containing the script? Can you execute a shell script if	10	CO3

	SECTION-C		_
Q 10	Create a crontab file that will regularly perform the following backups:  a. Perform a level 0 backup once per month.  b. Perform a level 2 dump one day per week.  c. Perform a level 5 dump every day on which neither a level 0 nor a level 2 dump is performed.  In the worst-case scenario, how many restore commands would you have to give to recover a file that was dumped using this schedule?	20	CO5
Q 11	When it puts files in a <b>lost+found</b> directory, fsck has lost the directory information for the files and thus has lost the names of the files. Each file is given a new name, which is the same as the inode number for the file:  \$ \begin{align*} \	20	CO4
	Examine different steps you take before performing an upgrade on a mission critical server?		