N	am	e:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2021

Course: Advanced Linux Semester: IV Program: B.Tech (CS+DevOps) Time 03 hrs.

Course Code: CSDV 2003 Max. Marks: 100

Instructions:

SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Complete the statement / Select the correct answer(s)

S. No.			Marks	CO
Q 1	Which of the following statement is FALSE?			
	i.	Unix supports multiple users		
	ii.	Linux is an open source operating system and the source code is shared	5	CO1
	iii.	Shell takes care of inter process communication		
	iv.	Shell provides the feature of I/O Redirection	5	
Q 2	By defau	By default, SMTP operates on which port?		
	i.	21		
	ii.	23		CO2
	iii.	119		
	iv.	25		
Q 3	To query	DNS (Internet domain name) servers, you use the command:	5	
	i.	DNS		
	ii.	nslookup		CO4
	iii.	dnsquery		
	iv.	isrouted		
Q 4		Hat Linux and its derivatives, which of the following commands will be	5	
	appropriate to check whether a particular "package" is installed or not?			
	1.	query-pkg		CO3
	ii.	rpm -qa		000
	iii.	pkg		
	iv.	sys		
Q 5	_	tory holds data	5	
	i.	Real-time information		G04
	ii.	System information		CO2
	iii.	Error logs		
0.6	iv.	Boot files	_	
Q 6		ald you find out what your current login shell is?	5	
	i.	cat/etc/shell		COA
	ii. 	echo \$\$SHELL		CO2
	iii.	echo shell		
	iv.	pwd		

	SECTION B					
Each q	uestion will carry 10 marks					
Instruc	tion: Write short / brief notes					
Q 7	a) Write a shell script that will ping a host and print the return code.b) Write a shell script which takes arguments while executing the script and map it to First name and Surname and print number of arguments that is entered.	10	CO2			
Q 8	Explain the following networking tools in brief: (a) ping (b) nslookup (c) telnet (d) arp	10	CO4			
Q 9	Explain the working of GRUB bootloader with dynamic configuration.	10	CO3			
Q 10	Explain various run levels of Linux operating system with suitable example.	10	CO2			
Q 11	Explain the package management system of Linux. Differentiate between rpm and yum in detail OR	10	CO2			
	Write a shell scripts to print Fibonacci series by using control structures?					
SECTION-C Instruction: Write long answer.						
Q 12	Explain the steps for managing public and private groups in redhat and CentOS OR Explain the role of Linux performance monitoring matrices. Explain memory matric and block device matric in details.	20	CO4			