

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec 2021

Course: UNIX and Linux Essentials
Program: BCA with spl. IoT
Course Code: CSBC 2011

Semester: III
Time : 03 hrs.
Max. Marks: 100

Instructions: Attempt all Questions

SECTION A (20 Marks)
MCQs/True-False choose appropriate option

S. No.		Marks	CO
Q1	i. Which of the following is the default command-line editing mode in bash? a) vi b) ed c)emacs d)vim ii. Redirection is a process of switching of the standard stream of data. a) TRUE b) FALSE iii. Which stream is connected to the display? a) standard input b) standard output c)standard error d)error iv. The command <code>wc < sample.txt</code> will count data from the file <code>sample.txt</code> . a) TRUE b) FALSE	1x4	CO2
Q2	i. Which of the following is the default command-line editing mode in bash? a) vi b) ed c)emacs d)vim ii. Redirection is a process of switching of the standard stream of data. a) TRUE b) FALSE iii. Which stream is connected to the display? a) standard input b) standard output c)standard error d)error iv. The command <code>wc < sample.txt</code> will count data from the file <code>sample.txt</code> . a) TRUE b) FALSE	1x4	CO3
Q3	i. What is UNIX? a) an operating system b) a text editor c)programming language d)software program ii. Which of the following is not a feature of UNIX? a) multitasking b) multiuser c) portability d) easy to use iii. Which of the following is not a part of all the versions of UNIX? a) Kernel and Shell b) Commands and utilities c) Graphical user interface d) System Calls iv. POSIX is a set of standards specified for establishing compatibility between operating systems. a) True b) False	1x4	CO1
Q4	i. <code>ls -n</code> is used to? a) long list a directory without permissions b) long list a directory with user and group names c)long list a directory with uid and gid d)no option like -n ii. 640 as a file permission means? a) -rw-r----- b) -rwx-rw-r-- c) -rwx-rw---- d) -rw-rw-rw- iii. <code>umask 0027</code> will lead to? a) set default permissions 644 for files and 740 for directories b) set default permissions 640 for files and 750 for directories c)set default permissions 640 for files and 740 for directories d)none iv. <code>\$chmod 442 file1</code> , will lead to? a) -r-r----x b) -r-r---wx c) -r-r----- d)none	1x4	CO2
Q5	i. Which of the following directories have read and execute permissions set for the owner and group only? a) <code>dr-xr-x---</code> b) <code>dr-x---r-x</code> c) <code>d---r-xr-x</code> d) ii. What is the correct octal value for the “write and execute” file permission? a) 3 b) 5 c)6 d)7 iii. What is the correct permission set for the <code>rwxr-xr-x</code> octal mode? a) 775 b) 644 c)755 d)674	1x4	CO1

	iv. Which of the following is not a process attribute? a) UID b) GID c)PS d)PID		
SECTION B (40 Marks)			
Q 6	Describe how UNIX and Linux evolved.	10	CO3
Q 7	Describe briefly. a) Multi user b) Multi Tasking c) Multi programming d) Multi processing e) Processes	10	CO1
Q 8	Describe the usage and purpose for the following commands. a. mv -r or mv -R b. rm -r c. grep -c d. passwd e. uname	10	CO2
Q 9	a) Describe the security features in linux file system. How are they managed? b) Describe processes and their handling in linux OS. Or Describe various re-direction metacharacters in terms of stdin, stdout and stderr, use appropriate examples to explain the usage.	10	CO3
SECTION-C (40 Marks)			
Q 10	Write a shell script to form a menu driven student records maintenance entry form. Or Write a shell program to display a M x N matrix.	20	CO1
Q11	Write a shell program to which takes user input of a pattern and directory path and displays the count of files matching that pattern.	20	CO1