Roll No: | | | | | | | | | | | |

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 07/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CSS2507 **Course Name:** Unix and Shell Programming

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	44	46

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What is the purpose of the passwd and stty commands?	2	CO1	BT1
2	Define command exit status. Which value generally indicates successful execution?	2	CO1	BT1
3	What is the purpose of the umask command?	2	CO2	BT1
4	Differentiate between mkdir and rmdir.	2	CO2	BT2
5	Explain the purpose of the find command with one example.	2	CO2	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	a) Explain the different components of UNIX architecture, including the kernel, shell, and utilities. [6M] b) Explain the cat, printf, echo, and who commands with syntax and examples. [4M]	10	CO1	BT2
7	a) Explain the following commands with syntax and examples: cal, date, tty, uname, and passwd. [6M] b) Write a shell script to accept a number and display its multiplication table from 1 to 10. [4 Marks]	10	CO1	BT3

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	a) Explain the read command and command-line arguments in shell scripting with suitable examples. [6M] b) Write a shell script that accepts two numbers through command-line arguments and displays the larger number. [4M]	10	CO1	BT3
9	a) Explain the exit status of a command and the logical operators &&, ||, and ! with examples. [6M] b) Write a shell script to check whether a given number is even or odd using an appropriate conditional expression. [4M]	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

PTO (Please Turn Over)

10	a) Explain the UNIX file system, home directory, and parent-child relationship between directories. [6M] b) Explain the commands pwd, cd, mkdir, and rmdir with syntax and examples. [4M]	10	CO2	BT2
11	a) Explain absolute and relative path names with suitable examples and differences. [4M] b) Explain the ls command and any six of its options with examples. [6M]	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
12	a) Explain UNIX file permissions, users, groups, and security levels. [6M] b) Write the chmod commands to assign the following permissions: [4M] Owner: Read and write Group: Read only Others: No permissions	10	CO2	BT3
13	a) Explain the umask command and changing file ownership and group with suitable examples. [6M] b) Differentiate between hard links and symbolic links. Explain the syntax for creating each type of link. [4M]	10	CO2	BT2