DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AY: 2020-21

YEAR: III
SEMESTER: I
SUBJECT NAME: UNIX PROGRAMMING

Blooms Taxonomy levels

L1– Remember, L2-Understanding, L3- Applying /Analyzing

Question – Bank

UNIT-1

Q.NO	Question	Marks	BT-level
1	Explain the features of UNIX that made it so popular.	4M	2
2	What is UNIX operating system? Explain various components of UNIX operating system.	10M	1,2
3	a) What is command substitution in a shell? Why is it important? Explain with an example. b) Is it possible to run multiple commands of UNIX in one time? Justify your answer with proper explanation.	10M	1,
4	Explain the following UNIX commands with examples: 1) uname 2) who 3)wc 4) passwd 5) lock	5M	2
5	Explain the following UNIX commands with examples: 1)ls 2)mkdir 3)banner 4)spell 5) man	5M	2
	Explain the following UNIX commands with examples: 1)more 2)date 3)tput 4)calendar 5)lock	5M	2
6	Explain shell as command processor	4M	2
7	Explain brief history of UNIX operating system	5M	2
8	What is shell & Explain different types of shells	6M	2

9	Explain "How to start using UNIX operating system?" with an log process example	6M	2
10	What is a command and explain different types and features of command	6M	2

UNIX-2

Q.NO	Question	Marks	BT-level
1	What are Links and Symbolic links in UNIX file system? Explain.	6M	2
2	Explain about file attributes and permissions in UNIX with examples	10M	2
3	Explain the commands that are available in UNIX file system to change the permissions of a file	10M	2
4	Explain the UNIX file structure and directories.	6M	2
5	Illustrate disk block file system structure of UNIX	10M	2
6	Demonstrate different types of UNIX files with examples	10M	2
7	Explain the basics of UNIX Files	6M	2
8	Explain the UNIXdirectory hierarchy	4M	2
9	What is the **inode** in UNIX? Where are inodes stored in UNIX file system? Explain.	5M	2
10	Explain the **chown** and **chgrp** commands in UNIX with an example.	5M	2

UNIT-3

Q.NO	Question	Marks	BT-level
1	Inspect the possibility of piping output of a command as an argument to a shell script?	5M	4
2	Explain in detail about Shell Input/Output redirections with examples	8M	2
3	Write a script to print the factorial of number of **'n'**	6M	2

4	How will you pass and access arguments to a shell script in UNIX? Explain with an example.	5M	2
5	Explain Command line arguments & positional parameters in a Shell script? How to validate input parameters? Explain with an example	5M	2
6	Explain shell Meta characters with examples	5M	2
7	Write a script illustrating **"case .... esac"** selection statement.	4M	3
8	Explain about various loop control statements of shell with a sample example.	10M	2
9	Write a shell script to get current date, time, user name and current working directory.	5M	2
10	Explain "How to avoid shell interpretation" with example	4M	2
11	a)Explain the digression of echo with example b)Apply set and shift command to positional parameters	5M	2
12	Explain the procedure of creating new commands with example	8M	2
13	What is an Environment variable? List out the common environment variables that control the user environment in Shell.	5M	2
14	Demonstrate the use of decision making statements in shell script	10M	2