**UNIT-2 Assignment-2- Introduction to bash Programming**

1 a) Define Shell and its Responsibilities.

 b) Explain with example the Process of Creation and Execution of a Shell Script.

 c) Describe the file access permissions in Unix.

2a) Explain how Unix operating system provides more security than any other operating system.

 b) Explain various meta characters in shell with an example script.

3. (a) What is command substitution? What is the token used with command sub-stitution?

(b) Write a shell script that allows a user to view, add, delete or modify a setting

in a configuration file.

3(a) Explain how debugging can be done in a shell script.

 (b) Write a shell script to print the details of the user login information.

4. (a) Differentiate between different types of shells available in UNIX.

(b) Write a shell script to implement background process that will continually

print current time in upper right corner of the screen, while user can do his/her

normal job at prompt.

5. (a) Explain the significance of single quote and double quote.

(b) What does the shell do with the meta characters if it finds in the command line?

(c) Write a shell script to find the factorial of a number.

6. (a) Differentiate between shell variables and environment variables and user defined variables.

(b) Write a short note on I/O Redirection operators.

7 (a) Describe any four built in variables in Shell and demonstrate their use giving

an example for each.

(b) Write a shell script to display GUD MRNG, GUD AFTERNOON, GUD NIGHT based on system time whenever user logs on.

8. a) Write about here documents ?

b) Write a shell script that determines the period for which a specified user is working on the system?

9 . (a) Explain how the shell treat a command line passed to it.

 (b) Write a shell script to find and delete all file with the word “unix".

10 a) Briefly describe various shell and environment various.

b) Write a shell script to count the specified number of lines in a text file without using wc command.

11 a) Explain the responsibilities of a shell.

 b) Write a shell script to illustrate cat command in Linux.