Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name : Fundamental of Unix

Subject Code : 4TE04FOU1 **Branch: B.Tech (IT)**

Semester : 4 **Date : 12/05/2016** **Time : 02.30 To 05.30** **Marks : 70**

Instructions:

(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Attempt the following questions:** **(14)**

a) Define Type command.
b) Explain who am i command.
c) Define sort command.
d) Explain uniq command.
e) Define cat command.
f) List types of file in unix.
g) What is a head command?
h) Explain tail command.
i) Unix OS was first developed by
a) Dennis Ritchie b) Bjarne stroustrup c) Ken Thompson d)Brian Kernighan
j) Unix is written in
a) C language b) Ada language c) Perl language d) Pascal language
k) How is the parent directory referenced in UNIX ?
a) / b) . c).. d) ^
l) Which command is used to search a pattern in a file?
a) fin b) get c) dir d) grep
m) The default value of umask is
a) 1024 b) 4021 c)1001 d) 0022
n) Which of the following is not an Unix command
a) cd b) rm c)del d) pwd

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions** **(14)**

a) What is UNIX? Explain UNIX architecture.
b) What is shell? Explain types of shell.

Q-3 **Attempt all questions** **(14)**

a) Explain file structure in UNIX.

b) Explain commands for creating and deleting files or directories in UNIX environment.

Q-4 **Attempt all questions** **(14)**

a) Explain ls command with all option.

b) Explain Process state and Zombie Process.

Q-5 **Attempt all questions** **(14)**

a) Explain command for count words, characters and lines in UNIX Environment with example.

b) Write a shell script to perform arithmetic operations.

Q-6 **Attempt all questions** **(14)**

a) Write a note on Redirection in UNIX.

b) Write a shell script to find minimum value from three numbers.

Q-7 **Attempt all questions** **(14)**

a) What is process? Explain ps and kill commands with example.

b) Write a shell script to check whether the number is prime or not.

Q-8 **Attempt all questions** **(14)**

a) List out command of comparing files and explain any two commands.

b) Write a shell script to display Fibonacci Series.