Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name: Fundamental of Unix

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

Semester: 4   **Date: 01/05/2018**   **Time: 10:30 To 01:30**   **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)	What is shell?	1
	b)	What is rm command?	1
	c)	What is bc Command?	1
	d)	What is Date commands?	1
	e)	What is printf command?	1
	f)	What is PWD command?	1
	g)	What is relative path?	1
	h)	Which command is used to count words in unix? Explain it.	1
	i)	What is time command?	1
	j)	What is kernel?	1
	k)	Which command is used to count character in unix? Explain it.	1
	l)	Explain use of * and ? in pattern matching.	1
	m)	Which command is used to count number of lines in unix? Explain it.	1
	n)	Explain grep command.	1

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

Q-2		**Attempt all questions**	**(14)**
	(a)	Explain UNIX architecture with features.	**(7)**
	(b)	Explain looping structure in shell script with suitable example.	**(7)**

Q-3		**Attempt all questions**	**(14)**
	(a)	Explain chmode, chown and chgrp command with suitable example.	**(7)**
	(b)	Explain Internal and External commands in UNIX.	**(7)**

Q-4		**Attempt all questions**	**(14)**
	(a)	Explain if….then….fi syntax with suitable example.	**(7)**
	(b)	Explain cal command with all option and example.	**(7)**

Q-5		**Attempt all questions**	**(14)**
	(a)	Explain various types of file in unix.	**(7)**
	(b)	Explain copy command with all option and example.	**(7)**

Q-6		**Attempt all questions**	**(14)**
	(a)	Write a shell script to find Maximum number and Minimum number from three numbers.	**(7)**
	(b)	What is process? Explain Process State and Zombie Process.	**(7)**

Q-7		**Attempt all questions**	**(14)**
	(a)	Write a shell script to check whether the string is palindrom or not.	**(7)**
	(b)	Explain foreground and background process. How to list running processes?	**(7)**

Q-8		**Attempt all questions**	**(14)**
	(a)	Write a shell script to find the factorial of a number given by user.	**(7)**
	(b)	Write a shell script that takes input of a five digit number and makes it reverse.	**(7)**