

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

**Subject Name : Fundamental of Unix**

**Subject Code : 4TE04FOU1**

**Branch: B.Tech (IT)**

**Semester : 4**

**Date : 08/05/2017**

**Time : 02:00 To 05:00**

**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.
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**Q-1**

**Attempt the following questions:**

**(14)**

- a. Which shell offers a command history feature?  
A) C shell                      B) Visual shell                      C) Bourne shell                      D) Korn Shell
- b. Unix OS was first developed by  
A) Dennis Ritchie                      B) Bjarne stroustrup  
C) Ken Thompson                      D) Brian Kernighan
- c. Shell Program is stored in a file called  
A) Unix                      B) Sh                      C) Dd                      D) Cc
- d. Unix is written in  
A) C language                      B) Ada language                      C) Perl language                      D) Pascal language
- e. Which of the following is a command for searching a pattern in a file?  
A) Find                      B) group                      C) look up.                      D) None
- f. All user directories are usually placed in \_\_\_\_\_ directory.  
A) Letc                      B) lusr                      C) ldev                      D) None
- g. The command pwd gives  
A) Present working directory                      B) Password in encrypted form  
C) Password in decrypted form                      D) None
- h. The size of any block in the unix file system is  
A) 512 bytes                      B) 1024 bytes                      C) 2048 bytes                      D) Any of the above
- i. To find the block size on your file system the command is  
A) Blksz                      B) Szblk                      C) Chksz                      D) Cmchk
- j. The father of all processes is  
A) Root                      B) Sh                      C) Sched                      D) Init
- k. Which of the following is NOT a shell keyword  
A) Shift                      B) Readonly                      C) Unset                      D) ls
- l. Which of the following statements is correct  
A) a=expr \$b + \$c  
B) a='expr \$b \* \$c'  
C) a='expr \$b \* (\$c + \$d)'  
D) a='expr \$b \\* \(\$c + \$d \)'
- m. Which file gets executed when we use the passwd command



- A) /etc/passwd  
 C) /bin/passwd
- B) /etc/pwd  
 D) /passwd
- n. The command head f1 would display
- A) First line of the file f1  
 C) First 10 lines of the file f1
- B) Nothing  
 D) The whole file f1

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

- Q-2 Attempt all questions (14)**
- a) What is UNIX? Draw and explain UNIX architecture. 7
- b) Explain commands for creating and deleting files and directories in UNIX environment. 7
- Q-3 Attempt all questions (14)**
- a) Explain Copy & Rename Command with all option and example. 7
- b) Explain relational operators and Boolean operators. 4
- c) Explain *printf* and *echo* command. 3
- Q-4 Attempt all questions (14)**
- a) What is Shell? Explain comments & types of shell 7
- b) Explain pipe Concept in brief. 4
- c) Explain *file* command with example. 3
- Q-5 Attempt all questions (14)**
- a) Explain vi editor with its operation modes. How to get out of vi? Explain. 7
- b) Write a note on Linux and GNU. 7
- Q-6 Attempt all questions (14)**
- a) Explain directory management in Unix. 7
- b) How to count words, characters and lines using UNIX command? Explain with example 7
- Q-7 Attempt all questions (14)**
- a) Write a shell script that takes input of a five digit number and makes it reverse 7
- b) Explain foreground and background process. How to list running processes? 7
- Q-8 Attempt all questions (14)**
- a) How to compile and run C program using “gcc” in UNIX environment? Explain with example 7
- b) Explain Process Status. What is Zombie process? 7

