



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY

B.TECH. SEMESTER I [IT/CE/EC]

SUBJECT: (CT116) ELE. OF LINUX OS & C PROG.-I

Examination : Block Sessional

Seat No. :

Date : 08/12/2017

Day : Friday

Time : 11:00 to 12:15

Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
 2. The symbols used carry their usual meanings.
 3. Assume suitable data, if required & mention them clearly.
 4. Draw neat sketches wherever necessary.
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Q.1 Do as directed.

- (a) Write a C program to find greatest number among the three numbers entered by user using Ternary Conditional operator. [2]
- (b) State true or false with justification [2]
The soft link will increase link counter of the destination file.
- (c) When one program is executed by three users, how many processes are generated? [2]
- (d) Explain dangling else problem with example. [2]
- (e) Discuss increment and decrement operator in detail. Also explain the difference in pre Increment(++m) and post increment(m++) with example. [2]
- (f) Consider 000 is current absolute permission of a.txt file. Does rm -f a.txt fail ? Justify [2]

Q.2 Attempt the following questions.

- (a) (1) Explain the purpose of \$PATH with example. How one can run a command that belongs to a directory not listed in PATH variable? [4]
(2) Discuss use of sizeof operator in C language. [2]
- (b) Write a C Program to read numbers from user until -1 is encountered. Then calculate the sum and mean of all Numbers entered by user. [6]

- Q.3**
- (a) Write an interactive Shell script for simple calculator (contains addition, multiplication, division, subtraction) using *case* structure utility. [6]
 - (b) Write a C program that can find GCD (Greatest Common Divisor) and LCM (Largest Common Multiplier) of two numbers entered by user. [6]