



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH. SEMESTER I [EC/CE/IT]

SUBJECT: (CT116) ELEMENTS OF LINUX OS & C PROGRAMMING –I

Examination : Addition Sessional - I

Date : 02/11/2017

Time : 1 Hr 15 minutes

Seat No. : _____

Day : Thursday

Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
2. Assume suitable data, if required & mention them clearly.
3. Draw neat sketches wherever necessary.

Q.1 Do as directed.

[12]

1. Which commands are used to sign off from the system? **[02]**
2. Run the following commands and then invoke ls. What do you conclude? **[02]**
\$echo >README[Enter]
\$echo >readme[Enter]
3. What is the response of following command? **[02]**
(i) **date** (ii) **man 4 passwd**
4. If mkdir test fails, what could be the possible reasons? **[02]**
5. What will be the output of the following command? **[02]**
(wc ddu ; ls -l ddu) > university)
6. The output of the cmp command(s) are given as below, Mention what does it indicate? **[02]**
(a) **\$ cmp file1 file2**
file1 file2 differ: char 9, line 1
(b) **\$ cmp file2 file1**
\$

Q.2 Attempt Any Two from the following questions.

[12]

1. List out the various features of UNIX operating system. Explain at least two of the features. **[06]**
2. (i) Assuming that you are positioned in the directory /home/a/ddu/technology/students, what are these commands presumed to do and explain whether they will work at all: **[06]**
(a) **cd ../../**
(b) **rmdir ..**
(ii) What is meant by recursive behavior of a command? Name two commands that can operate recursively.
(iii) What is the difference between cat journal and cat > journal? Why do you have to use [ctrl+d] in one and not in the other?
3. (i) Will the following commands give the same output? Justify your answer with an example. **[06]**
(a) **\$ ls > list ; wc list**
(b) **\$ ls | wc**
(ii) What is the significance of these commands?
(a) **mv \$HOME/Music •**
(b) **rm -rf ***

Q.3 1. (i) Which two commands are useful to change group owner of a file in a UNIX? How? [06]

(ii) Explain the consequences, from the security viewpoint, of a file having the permissions (a) 000 (b) 777. Assume that the directory has write permission.

2. What is an operating system? Explain common actions to most operating systems. **[06]**

OR

Q.3 1. Explain echo command with examples. At least four examples must have various escape sequences used by echo command. [06]

2. (i) How to change password of a user? List common password framing rules. **[06]**
(ii) How to restore the terminal characteristics?