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BICS-026

B.Tech. - VIEP - COMPUTER SCIENCE AND **ENGINEERING (BTCSVI)**

Term-End Examination June, 2015

0063N

BICS-026: UNIX INTERNALS AND SHELL **PROGRAMMING**

Time: 3 hours Maximum Marks: 70 **Note:** Answer any **seven** questions. All questions carry

Explain the pipes concept in detail. How is it used 1. for redirection of files?

10

5+5

10

Discuss the following:

equal marks.

- (a) LINK

(b) UNLINK

2.

Write a shell program to find the Greatest 3.

Common Divisor (GCD) for any two given numbers.

- Write UNIX commands for the following: 10
 - Remove a directory which consists of (a) 10 files.
 - (b) Display total number of users who have logged on UNIX.

(c)	Make a link of a file named test.c in the same working directory.
(d)	Write the contents of three files into a single file.

- (e) Change all the permissions of three files into a single file.
- 5. Write an algorithm and then draw the flow chart for calculating the sum of the digits of a 'n' digit number.
- **6.** What is the use of make command? Explain with the help of an example.
- 7. Explain mounting and unmounting the file system in UNIX.
- 8. What is paging? Explain how the addresses are mapped in paging, with the help of a block diagram.
- 9. What is an inode? What is its significance in UNIX file system? What is the information that is stored in it?
- 10. What is a socket? Write a socket program to transfer a file from server to multiclient.

10

10

10

10

10

10