

(Please write your Exam Roll No.)

Exam Roll No.

0011422006

END TERM EXAMINATION

FIFTH SEMESTER [BCA] DECEMBER-2008

Paper Code: BCA305

Paper Id: 20305

Time : 3 Hours

Subject: Linux Environment

(Batch: 2005-2006)

Maximum Marks :75

Note: Attempt all questions. Internal choice is indicated.

- Q1 Attempt **any three** of the following:- (5x3=15)
- (a) What are system calls?
 - (b) How will you add and delete a new user in Linux?
 - (c) Write a shell script to calculate factorial value.
 - (d) Which two commands can you use to delete directories?
- Q2 Attempt **any three** of the following:- (5x3=15)
- (a) Write a shell script which displays names of directories in PATH in one line each.
 - (b) What is pipe? When do you require nameless pipe?
 - (c) What do you understand by connection oriented and connectionless communication?
 - (d) What are socket API's?
- Q3 Attempt **any two** of the following:- (7.5x2=15)
- (a) Explain Proc file system in detail.
 - (b) Explain Linux file system along with the detailed description of ext 2.
 - (c) What is the difference between Message Queue and pipes?
- Q4 Attempt **any one** of the following:- (7.5x2=15)
- (a) Write short notes on:-
 - (i) fork ()
 - (ii) semaphores
 - (b) Discuss symmetric multiprocessing. (15)
- Q5 (a) What are the various steps involved in Kernel recompilation? (7.5)
- (b) Describe interrupt handling in detail. (7.5)
