

END TERM EXAMINATION

FIFTH SEMESTER [BCA] DECEMBER-2009

Paper Code: BCA305 Subject: Lin		nux Environment
		Maximum Marks :75
	Note: Q.1 is compulsory. Attempt one question from each un	THE RESIDENCE OF THE PARTY OF T
Q1 .	Attempt any five of the following: (a) 'Linux operating system supports multiprocessing, m	ssion only.
	print the largest number.	
	UNIT-I	
Q2	(a) Write a shell program to print the number of users that are (b) Explain in brief the data structure in Linux Kernel. (c) Define the following:- (i) getpid (ii) pause (iii) fork (iv) execv	(2)
Q3	(a) Explain any two with suitable example	(4)
	(i) chmod (ii) wc (iii) grep(b) Explain the advantages and disadvantages of dynamic mer the Kernel segment.	mory allocation in (4.5)
	(c) Write short notes on the following:- (i) Paging under LINUX (ii) Block devices	(4)
	UNIT-II	
Q4	Explain the following:- (a) Client – server model (b) Pipes (c) Shared memory OR	(6.5+3+3)
Q5	(a) How does synchronization in the kernel take place?	(6.5)
	(b) What is message queue?	(3)
	(c) Explain ipcs and ipcrm commands.	(3)
	UNIT-III	
Q6	(a) What is the function of Kernel deamon?	(6.5)
	(b) What is module stacking?	(3)
	(c) Explain the Gdb and printk() commands.	(3)
Q7	Explain the file system in LINUX.	(12.5)
	UNIT-IV	
Q8	Explain the following:- (a) Spooling (b) Symmetric multiprocess OR	(4+8.5)
Q9	(a) Explain how message is exchanged between processes?	(6.5)
	(b) What are the problems with multiprocessor systems?	(6)