Tot	al N	o of Questions: 10] [Total No. of Printed Pages: 3			
		Roll No			
IT-601(N)					
В.	E.	(Sixth Semester) EXAMINATION, June, 2010 (New Scheme) (Information Technology Engg. Branch) UNIX AND SHELL PROGRAMMING [IT-601(N)] Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35			
Note:		Attempt <i>one</i> question from each Unit. All questions carry equal marks.			
		Unit-I			
		Explain the kernel and buffer cache architecture of UNIX O/S with neat diagram. Name five administrative functions that can't be performed by a non-privileged user.			
2.	(a)	Describe briefly the UNIX architecture explaining the role played by the kernel and shell in sharing the work load.			
	(b)	What is buffer cache? Give the advantages and disadvantages of buffer cache. Unit—II			
3,	(a)	Explain the difference between the following: (i) ls-l and ls-lt (ii) ls-lu and ls-lut P. T. O.			
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IT-601(N)

	(b)	Explain the significance of fast symbolic links and dangling symbolic links.
4.	(a)	Explain with reference to the dot and * what the following commands do: (i) Chown - R project. (ii) Chgrp - R project*
	(b)	Explain the four components of file systems briefly. 10
		Unit — III
5.	(a)	Explain what daemon processes are and their behavioural pattern. Name three examples of daemons and tasks they perform.
	(b)	Explain <i>five</i> important process attributes that are inherited by the child from its parents.
6.	(a)	What are signals? Name a way of generating a signal from the keyboard. Why should we'use kill with signal names rather than their numbers?
	(b)	Explain the following scheduling commands: 10 (i) at (ii) batch (iii) cron (iv) time
		Unit-IV
7.		Explain Bourne shell and C shell briefly. 10 Write a script that checks each minute and reports on who logs in and who logs out. 10
8.	(a)	Explain the logical and conditional operators briefly. 10

(b) Devise a script that accepts two directions named A1 and A2, and deletes those files in A2 which are identical to their namesakes in A1. 10 Unit-V 9. (a) Explain the string handling functions of Perl. 8 (b) Implement the following commands in awk: 12 (i) head - n 5 foo (ii) sed - n, '5, lop' foo (iii) tail + 20 foo 10. Write brief notes on the following: 20 (i) Linux structure (ii) Chop () (iii) Socket programming

(iv) TELNET