R09 Code No: C4007 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations March/April-2011 LINUX PROGRAMMING (INFORMATION TECHNOLOGY) Max.Marks:60

Time: 3hours

Answer any five questions All questions carry equal marks - - -

1. a) b) c)	Define Shell and its Responsibilities. Explain with example the Process of Creation and Execution of a Shell So Describe the file access permissions in Unix.	cript. [12]
2. a) b) c)	Describe the characteristics of Unix File System. Discuss clearly the Low Level File I/O System Calls. Explain dup() and its importance.	[12]
3. a) b)	Explain with suitable examples the use of Perl in Pattern Matching. Explain File I/O in Perl using suitable example.	[12]
4. a) b)	Explain the Data Structures that are affected when a process gets cr deleted. What is a Zombie Process? What is its significance? Describe with an exa	
5. a) b)	Define Signals. What do you mean by Unreliable Signals? Explain. Explain clearly the Signal concept with a suitable example.	[12]
6. a) b)	Why do Process Communicate? Elaborately discuss various forms of IPC supported by Unix.	[12]
7.	Explain with example the Kernel Support and working of Shared Memory	
8.	Discuss the following: a) Socket System Calls for Connection Oriented Protocol. b) Semaphores.	[12]

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