BT-6/M-21

UNIX AND LINUX PROGRAMMING Paper–PE-CS-S 314 A

Time: Three Hours [Maximum Marks: 75]

Note: Attempt *five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

UNIT-I

- 1. (a) What is UNIX File System? Discuss its various components in detail.
 - (b) What do you mean by mounting and unmouting a file system? Also brief its significant role in context to UNIX File System.
- **2.** (a) What is i-nodes in UNIX operating system? Explain.
 - (b) Explain any *five* UNIX commands with their syntax and examples.

UNIT-II

- 3. (a) What are Quantifiers? What is the importance of Quantifiers?
 - (b) Explain about grep and egrep utility with suitable examples. 7

4.	(a) What is AWK programming? Illustrate with an example.
	(b) Write a PERL based simple program to find the Factorial of a given number. 7
	UNIT-III
5.	(a) What are the dependency calculations in C environment programs? Discuss in detail.
	(b) What is static and dynamic memory management in UNIX programming?
6.	(a) What is vi editor ? Explain the various modes of vi editor.
	(b) Briefly discuss about the projects development and execution in C environment based on UNIX operating system. 7 UNIT-IV
7.	(a) What is a process ? How are processes initialized and stopped in UNIX operating system ?
	(b) What do you mean by Job Control processes in Linux? Discuss in detail.
8.	(a) Discuss about Linux I/O system in detail. 8
	(b) Briefly tell about SIGSTOP and SIGKILL signals in context to signal handlers. 7