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Total Pages: 2

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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. 8
 - What do you mean by mounting and unmouting a file (b) system? Also brief its significant role in context to UNIX File System. 7
- What is i-nodes in UNIX operating system? Explain. 2. (a) 8

Explain any five UNIX commands with their syntax 7

UNIT-II

- 3. What are Quantifiers? What is the importance of (a) Ouantifiers? 8
 - Explain about grep and egrep utility with suitable (b) examples. 7

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(b)

and examples.

[P.T.O.

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

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(a)

(b)

8.

Discuss about Linux I/O system in detail.

context to signal handlers.

Briefly tell about SIGSTOP and SIGKILL signals in

8

7