2427 BCA-03

B.C.A. DEGREE EXAMINATION – JANUARY, 2006.

INTRODUCTION TO SYSTEM SOFTWARE

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Compare assembler and compiler.

2. Write short notes on Lex.

3. What are the advantages of virtual memory?

4. Explain the dynamic partition memory management scheme in detail.

5. What are the features of UNIX?

6. Explain the following command.

(a) grep (b) sat (c) tr (d) lp (e) man.

7. Write a shell script to accept a number and check whether it is prime or not.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Discuss the various phases of a compiler.

9. What is an absolute loader? List its features and characteristics.

10. What is disk scheduling? Compare any two disk scheduling algorithm.

11. How does segmentation differ from paging? Discuss.

12. Discuss the following :

(a) Demand paging.

(b) Swapping.

13. (a) Define : (i) User account (ii) Group account

(b) Discuss : How to maintain user accounts?

14. Write a shell program to do the following.

(a) Accept a string and check whether it is palindrome.

(b) To find sum of digits of a given number.