Register Number :

Name of the Candidate :

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B.Sc. DEGREE EXAMINATION, 2008

(COMPUTER SCIENCE)

(FIRST YEAR)

(PART - III)

(PAPER - IV)

561 / 160. UNIX AND C

(Common with New and Revised Regulations)

December]   [Time : 3 Hours

Maximum : 100 Marks

PART - A   (8 × 5 = 40)

Answer any EIGHT questions.
All questions carry equal marks.

1. Discuss the fundamentals of Unix.

2. Explain the structure of Unix OS.

3. List the types of basic regular expression.

Turn over

4. Explain the processor directives.

5. Discuss the relational and logical operators.

6. Compare break and continue statements.

7. What is the purpose of switch statement ? Explain the difference between switch and if statement.

8. What is a pointer ? Discuss it's various advantages.

9. Distinguish between structure and union.

10. What is meant by data file in '*c*' ? How do you open and close a file ?

PART - B   (3 × 20 = 60)

Answer any THREE questions.
All questions carry equal marks.

11. (a) Explain the history of UNIX operating system in detail. (10)

    (b) Write a shell program to add two numbers. (10)

12. (a) Describe the functions of UNIX Kernel data structures. (10)

    (b) Explain the system calls with examples. (10)

13. (a) Discuss the precedence of the operators in C. (10)

    (b) Distinguish between library functions and keywords in C. Give five examples for each. (10)

14. (a) Explain the dynamic memory allocation in detail with example. (10)

    (b) List and explain the different types of storage classes in C. (10)

15. (a) What is a singly linked list ? Explain with examples. (10)

    (b) Explain with examples, how do you create a structure and access the members from the structure. (10)