

**Exam. Code : 105701**  
**Subject Code : 1444**

**B.Sc. Information Technology Ist Sem.**

**INTRODUCTION TO PROGRAMMING C**

**Paper-II**

Time Allowed—3 Hours] [Maximum Marks—75

**Note :—**Attempt 5 questions. Select at least **one** question from each section. **Fifth** question may be selected from any section.

**SECTION—A**

1. What is the importance of declaring data types ? Explain the different types of data that C programs can handle. 15
2. Explain different input/output statements available in the C language. 15

**SECTION—B**

3. Explain the use of if-else and switch statements in a C program. 15
4. What is a storage class ? What are the different types of storage classes and how are they used ? Give examples. 15

**SECTION—C**

5. How is a function defined and used ? What is the significance of a function prototype ? 15

6. Define an array. Write a program to find all even numbers in a given array, and increment each of them by 1.  
e.g. {10, 3, 45, 2, 75, 36} → {11, 3, 45, 3, 75, 37}

15

**SECTION—D**

7. What is a pointer variable ? How is it defined and initialized ? Discuss its advantages and disadvantages. 15
8. What is the difference between a structure and union ? Explain the concept of a self-referential structure. Where is it used ? Give an example. 15

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