D 2690	Name
	Per No

## FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2005

Computer Science

## CS 101—PROGRAMMING AND PROBLEM SOLVING

Time: Three Hours Maximum: 60 Marks

Answer any **five** questions from Part A and any **three** from Part **B**.

## Part A

- 1. Give the different data types supported by 'C'.
- 2. What are the bitwise operations in 'C'?
- 3. Discuss the function atof ().
- 4. What is the role of a preprocessor in "C"?
- 5. Distinguish between swap (a, b) and swap (&a, &b).
- 6. What is a recursive function? Give an example.
- 7. Describe formatted scan f.

 $(5 \times 3 = 15 \text{ marks})$ 

## Part B

- 8. Write a program to input two lists of numbers and output a combined list without repetitions.
- 9. Write a program to interchange two rows in a given matrix.
- 10. Write a program to compute  $x \frac{x^2}{2!} + \frac{x^3}{3!} \frac{14}{4!} \dots n$  terms.
- 11. Write a program to count the lines, words and characters in input.

 $(3 \times 15 = 45 \text{ marks})$