

Roll No. ....

**24176**

**B. Tech 4th Sem. (Computer Science &  
Engg.) Examination - May, 2012**

**PROGRAMMING LANGUAGE**

**Paper : CSE - 204 - F**

***Time : Three hours ]***

***[ Maximum Marks : 100***

*Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complain in this regard, will be entertained after examination.*

**Note :** (i) Attempt **Five** Questions in total, at least **one** question from each section.

(ii) Question No. **1** is **compulsory**.

(iii) Each question carries equal **(20)** marks.

1. (a) Explain the differences between Compiled and Interpreted language. 2
- (b) Define a record data type. 2
- (c) Explain the need of storage management in brief. 2
- (d) Discuss the disadvantages of having too many features in a language. 2
- (e) What do you mean by subprogram definition ? 2

- (f) What does L-Value and R-Value of a Variable mean ? 2
- (g) Give the differences between implicit and explicit sequence control. 2
- (h) What do you mean by referencing environment ? 2
- (i) Define an array. 2
- (j) Define syntax and semantics. 2

### SECTION - A

2. (a) What do you mean by type checking and type conversion ? 10
- (b) What is declaration in a programming language ?  
Explain in detail, the purpose of declaration. 10
3. (a) Write a short note on numeric data types. 6
- (b) Explain enumeration in detail. 4
- (c) Explain the following :  $4 \times 2\frac{1}{2} = 10$
- (i) Compiler,
  - (ii) Interpreter,
  - (iii) Linker,
  - (iv) Boolean data types.

### SECTION – D

8. Explain Heap storage management with fixed and variable sized elements. 20

9. Explain the features of : 4 x 5 = 20

- (i) Procedural language,
- (ii) Non - Procedural language,
- (iii) Structured language,
- (iv) Functional language.