

Roll No. ....

**2114**

**B. E. (4th Sem.) (I. T.)**

**Examination – December, 2011**

**PROGRAMMING LANGUAGES**

**Paper : CSE-204-E**

**Time : Three hours ]**

**[ Maximum Marks : 100**

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

**Note :** Attempt any *five* questions.

1. (a) Explain various characteristics of a good programming language. 10  
(b) Differentiate between Compiler and Interpreter. 5  
(c) What is Enumeration Data Type ? Explain its use. 5
2. (a) What do you mean by Array ? Differentiate between Array and Structure. 10  
(b) Explain type conversion with its types. 10
3. (a) Differentiate between Abstraction, Encapsulation and Data Hiding. 10  
(b) What is Union data type ? Explain its use. 10

4. (a) Explain how exceptions are handled in a Programming Language. 10
- (b) Write a brief note on Recursive Subprogram with suitable example. 10
5. Explain various Parameter Passing Schemes in detail. 20
6. (a) Differentiate between Stack Based Storage Management and Heap Storage Management. 10
- (b) Explain the phases of Storage Management. 10
7. (a) Different between Object Oriented and Procedure-Oriented Languages. 10
- (b) Explain the variable size elements of Storage Management. 10
8. Write short notes on :  $4 \times 5 = 20$
- (a) Data objects,
- (b) Abstract data types,
- (c) Subprogram Sequence Control,
- (d) Pointers.
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