

Roll No.

Total Pages : 2

8402

BT-4/M-12

PROGRAMMING LANGUAGES

Paper—CSE-204-E

Time Allowed : 3 Hours] [Maximum Marks : 100

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All parts carry equal marks.

UNIT-I

1. (a) Explain lexical and syntactical rules for describing syntax.
(b) What is type conversion ? Explain.
(c) What are enumerated and union data types ?
2. (a) What are decimal data types ?
(b) Give example of a parse tree. What is a parse tree ? Show example.

UNIT-II

3. (a) Explain the concept of vectors and arrays—accessing and indexing.

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- (b) What is an abstract data type ? Give ADT supportable operations.
- 4. (a) Explain different capabilities of file handling.
- (b) Describe overloaded and generic subprograms.

UNIT-III

- 5. (a) What are exceptions ? What are exception handlers ? How do they work ?
- (b) Explain the working of recursive subprograms.
- 6. (a) What is referencing environment ? What is explicit common environment ?
- (b) What are semaphores ? How are they useful ? Explain.

UNIT-IV

- 7. (a) What is heap based storage management ?
- (b) What are the different types of logic programming languages ?
- 8. (a) What are run time requirements of storage management ?
- (b) Compare C with C++ programming language.