

BT-4 / M-19

PROGRAMMING LANGUAGE

Paper-IT-204N

Option-II

Time allowed : 3 hours]

[Maximum marks : 75

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

Unit-I

1. (i) Explain the characteristics of a good programming language. 8
- (ii) Write a short note on elementary data types. 7
2. (i) Describe programming languages translators. 8
- (ii) What do you mean by formal method of describing syntax? 7

Unit-II

3. (i) Explain structured data objects and data types. 8
- (ii) Write a short note on variable size data structure. 7
4. Explain the following terms : 15
- (a) abstraction
- (b) encapsulation

(2)

- (c) information hiding
- (d) overloaded subprograms
- (e) generic subprograms

### Unit-III

- 5. (i) Explain sequence control within expression with suitable examples. 8
- (ii) Write a short note on exception and exception handlers. 7
- 6. (i) Write a short note on local data and local referencing environment. 8
- (ii) Explain parameter and parameter transmission scheme. 7

### Unit-IV

- 7. (i) Discuss static storage management. 8
- (ii) Describe heap storage management. 7
- 8. (a) Explain procedural, non-procedural, functional and object oriented programming language. 8
- (ii) Compare C and C++ programming language. 7

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