

Roll No.

Total Pages : 02

BT-4/M-20

34122

PROGRAMMING LANGUAGES

IT-204N (Opt. I)

Time : Three 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. (a) Describe programming languages translators. **8**
(b) Write a short note on programmer defined data objects. **7**
2. (a) Explain the terms 'syntax and semantics' with the help of suitable examples. **8**
(b) What do you understand by 'general problem of describing syntax' ? Explain formal method of describing syntax. **7**

Unit II

3. (a) Explain implementation of structured data types. **8**
(b) Write a short note on variable size data structures. **7**

4. Explain the following terms : **15**
- (a) Information hiding
 - (b) Overloaded subprograms
 - (c) Generic subprograms.

Unit III

5. (a) Explain sequence control within statement with suitable examples. **8**
- (b) Write a short note on co-routines and sequence control. **7**
6. (a) Write a short note on static and dynamic scope. **8**
- (b) Explain parameter and parameter transmission schemes. **7**

Unit IV

7. (a) Discuss major run time elements requiring storage. **8**
- (b) Describe static storage management. **7**
8. (a) Explain procedural, logical, functional and object oriented programming language. **8**
- (b) Compare between C and C++ programming languages. **7**