

Roll No.

9422

Printed Pages : 2

BT-4 / M-17

PROGRAMMING LANGUAGES

Paper-IT-204 N

Time allowed : 3 hours]

[Maximum marks : 75

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

Unit-I

1. (a) What should be the qualities of good programming language? Explain. 7.5
(b) Explain the organization of a compiler along with its working in brief. 7.5
2. (a) Explain following in brief:
(i) Enumeration
(ii) Assignment
(iii) Variables 7.5
(b) What do you mean by context free grammar? Explain using appropriate examples. 7.5

Unit-II

3. (a) What do you mean by genetic subprogram? Explain using suitable examples. 7.5
(b) Comment on the need of encapsulation and abstraction in a programming language. 7.5
4. (a) How structured data types are implemented in different languages? Explain. 7.5

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- (b) How files are handled and implemented in different languages? Explain in brief. 7.5

Unit-III

5. (a) How sequence control is handled within an expression and a statement? Explain using appropriate examples. 10
(b) Differentiate between implicit and explicit sequence control. 5
6. (a) Differentiate between static and dynamic scope and discuss their implementation in brief. 7.5
(b) Discuss the various parameter passing mechanism and their implementation. 7.5

Unit-IV

7. Explain features of structural, object-oriented and functional programming languages in detail. Also compare these languages on the basis of different parameters. 15
8. What are the run-time elements that require storage? How the storage management is done at programmer and system level? 15

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