

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 the examination.

Note : Attempt five questions. Question No. 1 is compulsory. Select one question from each unit.

1. (i) What are the characteristics of a good programming language ?
- (ii) Define numerical data type.
- (iii) What do you mean by information hiding ?
- (iv) Define abstract data type.
- (v) Define block structure.
- (vi) What do you mean by referencing environment ?
- (vii) What are the various run time elements required for storage ?
- (viii) Differentiate between procedural and non procedural language.

Unit-I

2. (a) Define programming language. Explain the syntactic and semantic rules of a programming language.

- (b) What do you understand by data types ? Explain the specification and implementation of elementary data types.
3. (a) What do you mean by type checking and type conversion ? Explain.
- (b) Explain the following :
 - (i) Compiler
 - (ii) Interpreter
 - (iii) Enumeration
 - (iv) Boolean Data type.

Unit-II

4. (a) What is a subprogram ? Discuss subprogram definition and subprogram activation.
- (b) Explain: <http://www.HaryanaPapers.com>
 - (i) Abstraction
 - (ii) Encapsulation.
5. (a) What are structure data types ? Explain how to implement structure data types.
- (b) Define Record. Discuss their implementation in a programming language.

Unit-III

6. (a) Define parameter. Discuss the various parameters transmission schemes.
- (b) Discuss 'Static and dynamic scope' for data control in a programming language.

7. (a) Define sequential control. What do you mean by sequence control within statement ?
(b) Explain :
(i) Exception and exception handler
(ii) Co-routine.

Unit-IV

8. Compare and contrast :
(i) C and C++ Language
(ii) Structured and object oriented language.
9. Discuss the heap storage management with fixed size and variable size elements.

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