

B.Tech. (CSE) 4th Semester F-Scheme

Examination, May-2019

PROGRAMMING LANGUAGE

Paper-CSE-204-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions selecting one question from each section and Question No. 1 is compulsory.

- 1. Describe the following : 20
 - (i) What are the characteristics of a good programming language ?
 - (ii) Give the difference between implicit and explicit sequential control.
 - (iii) Explain the concept of stack based storage management.
 - (iv) Define the concept of exception handling.

Section-A

- 2. (a) Define programming language. Explain the syntax and semantic rules of programming language. 10
- (b) Explain the following :
 - (i) Write a short note on numeric data type. 5
 - (ii) What is Enumeration Data Type ? Explain its use. 5

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- 3. (a) Explain various programming language translators in detail. 10
- (b) Explain various characteristics of a good programming language. 10

Section-B

- 4. (a) What are structure data types ? Explain major attributes for specifying data structure. 10
- (b) What do you understand by subprogram definition and subprogram invocation ? Also discuss its implementation in a programming language. 10
- 5. (a) Define array and its implementation in programming language. 10
- (b) How we declare data structure and type checking of data structure ? Explain with example. 10

Section-C

- 6. (a) What do you mean by referencing environments Discuss its static and dynamic scope. What are the various components required for referencing environment of a subprogram ? 12
- (b) Discuss parameter transmission schemes. 8
- 7. (a) Define sequential control. What do you mean by sequence control within expression ? 10

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- b) Discuss 'Name and referencing environment' for data control in a programming language. 10

Section-D

8. (a) Explain difference between Procedure and Non-Procedure language. 10
(b) Write down the major 8 differences between C and C++ Programming Language. 10
9. Write a short note on the following : 20
(a) Stack based storage management
(b) Dangling reference in storage management

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