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C14-IT-503

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BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DIT—FIFTH SEMESTER EXAMINATION

PRINCIPLES OF PROGRAMMING LANGUAGES

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Write the reasons for studying programming languages.

2. Define Aliasing.

3. Define Language Generators.

4. Write the general form of Context free grammars.

5. Define Datatype.

6. What do you mean by reference types?

7. What is Associativity?

8. Define Ruby Expressions?

9. State the use of a subprogram.

10. Define Dynamic scope of a variable.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain the Language Evaluation Criteria and the characteristics that effect them.
12. What is BNF? What is its importance in describing the syntax of Programming Languages?
13. Explain the concept of Parse trees with an example.
14. Explain the usage of record, pointer in different programming languages.
15. Explain Short Circuit Evaluation and Mixed Mode Assignment.
16. Differentiate Selection and Iteration concepts.
17. (a) Write about overloaded subprograms.
(b) What are co-routines?
18. Discuss about the procedures and functions in subprograms.

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