Roll No. ....
Printed Pages : 2

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BT-4 / M-15

PROGRAMMING LANGUAGES

Paper-CSE-204 E

Time allowed : 3 hours]   *[Maximum marks : 100*

Note :   *Attempt any five questions by selecting at least one question from each unit. All questions carry equal marks.*

Unit-I

1. What are programming languages ? Discuss their types. Also mention the desirable characteristics of a programming language.   20

2. What are different types of errors that might be present in a program ? Explain with the help of C/C++ code. Also discuss various features of C-language.   20

Unit-II

3. Explain the meaning and working and implementation of following composite data structures :   20

   (a) Structures in C

   (b) Linked lists in C.

4. Describe the concept of sub-programming by choosing a language of your choice. Distinguish between function and procedure subprograms. Also discuss standard library functions.   20

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Unit-III

5. Differentiate between iterative and recursive procedures. Write recursive and iterative subprogram for a problem of your choice.   20

6. Describe following concepts with illustrations :   10 each

   (a) Scope (dynamic/static and local/global)

   (b) Parameter transmission mechanisms.

Unit-IV

7. Describe various mechanisms for storage management like :   10 each

   (a) static and dynamic structures and

   (b) heap and stack structures.

8. Present a detailed comparison of C and C++ programming languages.   20

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