

Unit IV

7. (a) Explain Heap storage management with fixed and variable sized elements. 8
(b) Explain the concept of Dangling references in storage management. 7
8. Discuss storage management in detail. What is the difference between variable and fixed size elements ? 15

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B. Tech. EXAMINATION, 2022

(Fifth Semester)

(C Scheme) (Main & Re-appear)

(CSE)

CSE323C

PROGRAMMING LANGUAGES

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Discuss the characteristics of a good programming language. 8
(b) What is a translator ? What are the different stages in translation process ? Discuss. 7
2. Write short notes on the following : 15
 - (a) Procedural Language
 - (b) Non-procedural Language
 - (c) Structured Language
 - (d) Functional Language

Unit II

3. (a) What is a data type ? Discuss about the specifications and implementation of elementary data types. 8
(b) Define an array. Discuss the implementation of an array in programming language. 7

4. (a) Define coercion, type checking, type error and strong typing with the help of example. 8
(b) Differentiate between structured data type and enumerated data types. 7

Unit III

5. (a) Elaborate the difference between Simple call return subprograms and recursive subprograms with the help of example. 8
(b) Explain static and dynamic scope by giving example. 7
6. (a) What is an Exception and Exception Handler ? How are they useful in Sequence control and data control ? 8
(b) Explain sequence control within a statement with the help of an example. 7