

Unit IV

No. of Printed Pages : 04

Roll No.

7. (a) Write the advantages and disadvantages of information hiding concept supported by a programming language. 8
- (b) What do you mean by abstraction ? Describe the evolution process of abstraction. 7
8. List the storage management phases. Compare and contrast the programmer controlled and system controlled storage management. 15

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B.Tech. EXAMINATION, 2024

(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. Each question carries equal marks.

Unit I

1. (a) List five benefits of studying different programming languages. 7
(b) Briefly explain the process of compilation of a program written in a high level language. 8
2. What are the advantages offered by object oriented programming methodology over procedural programming methodology ? Write at least seven points of difference between C & C++. 15

Unit II

3. (a) List the major storage representations used for pointer data types ? Discuss each briefly. 7
(b) Describe any *two* mechanisms using which the programmers can create new data types of their choice in addition to the data types supported by a programming language. 8

4. (a) Describe the specification and implementation issues of integer data type. 5
(b) What additional tasks are performed during type checking of structured data types as compared to elementary data types ? 10

Unit III

5. (a) Define a referencing environment. List the main components of the referencing environment of a program ? 7
(b) What do you mean by scope of a variable ? Differentiate between static and dynamic scope. 8
6. How the correspondence between actual and formal parameters is established during subprogram call and return ? Write and explain any *four* schemes for the parameter transmission. 15