CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - December- 2024
PRINCIPLE OF PROGRAMMING LANGUAGES
(CSE)

[Time: 3 Hours]   [Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A   (20 Marks)

1. a) Define Syntax and Semantics.   [2M]
   b) Write the uses of parse trees.   [2M]
   c) Define associative arrays.   [2M]
   d) Distinguish named type and structure type compatibility.   [2M]
   e) Define scope and lifetime of a variable.   [2M]
   f) What is mean by pass by value?   [2M]
   g) Define data abstraction.   [2M]
   h) Write an example of an exception in Java.   [2M]
   i) List data types of Python language.   [2M]
   j) Write few examples of scripting languages.   [2M]

PART-B   (50 Marks)

2. Discuss various programming domains and their associated languages.   [10M]

OR

3. Explain with an example how operator associatively can be incorporated in grammars. What   [10M]
   are the uses of an attribute grammar?

4. Define the followings   [10M]
   • Stack Dynamic
   • Explicit Heap Dynamic
   • Implicit Heap Dynamic

OR

5. Differentiate between static and dynamic type checking and give their relative advantages. [10M]

6. Define abstract data type. Explain type checking technique in parameter passing.   [10M]

OR

7. Write a detailed note on local referencing environments.   [10M]

8. What are the various methods of exception handling? Discuss.   [10M]

OR

9. What are three possible levels of concurrency in programs? Explain.   [10M]

10. Give the meaning of a scripting language and List few examples of scripting languages.   [10M]

OR

11. Explain the characteristics of scripting languages.   [10M]

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