Code No.: CS513PE   R20   H.T.No. [ ][ ][8][R][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - June- 2024
PRINCIPLES 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 Programming Language.   [2M]
   b) Differentiate compiler and interpreter.   [2M]
   c) Define data type.   [2M]
   d) Distinguish static and dynamic scoping.   [2M]
   e) Explain subprograms in ADA.   [2M]
   f) List the design issues of functions.   [2M]
   g) Explain threads in C#.   [2M]
   h) Define deadlock.   [2M]
   i) Give the meaning of lazy evaluation.   [2M]
   j) List few examples of scripting languages.   [2M]

PART-B   (50 Marks)

2. What are the potential benefits of studying programming language concepts?   [10M]

OR

3. What are three main styles of describing semantics& explain briefly?   [10M]

4. Define an array. Explain how to initialize an array.   [10M]

OR

5. Describe how the pointers used in C and C++ with examples?   [10M]

6. Define sub program. What are the categories of subprograms?   [10M]

OR

7.a) Explain about the generic subprograms with example.   [5M]
  b) Explain in detail various design issues of character string types.   [5M]

8. Explain the difference between Physical and logical concurrency.   [10M]

OR

9. Write in detail about the Exception Handling and Event Handling in java.   [10M]

10. Write the comparison of functional and imperative languages.   [10M]

OR

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

****