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M.Tech.(IT) / (CSE Engg.) / (E-Security) (Sem.–1) ADVANCED PROGRAMMING LANGUAGE Subject Code : CS-509 Paper ID : [E0689]

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carry TWENTY marks.
- 1. What do you mean by programming paradigms? Explain different programming paradigm with help of examples.
- 2. Differentiate the following with the help of suitable examples :
 - a) Static vs. dynamic type checking
 - b) Type conversion vs. type co-ercion
 - c) Call by value and Call by reference
 - d) Compilation and Interpretation
- 3. Discuss how the following can be accomplished in a programming language like C.
 - a) Lexical Scope
 - b) Memory Layout
 - c) Procedure Call and Return
- 4. a) List and briefly explain the actions that occurs when a procedure is called, using the activation record layout for C Language.
 - b) Differentiate between static and dynamic binding.
- 5. What are the different elements of a language? Write down different stages in translation. Explain in details.
- 6. Explain the difference between late and early binding. What are the advantages and disadvantages of each? Explain with small program in C++.
- 7. a) What do you mean by Co-routine? Explain in detail.
 - b) Explain tail-recursion in detail.
- 8. Write short note on the following(s) :
 - a) Call by name
 - b) Dangling Reference

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