Roll No.							Total No. of Pages: 01
							Total No. of Questions: 08

M. Tech(IT, CSE, E-SECURITY) (Sem.-1st) ADVANCED PROGRAMMING LANGUAGE

Subject Code: CS-509 Paper ID: [E0689]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATE: Attempt any five questions out of eight questions Each question carry twenty marks. Q1. (a) Discuss briefly the characteristics of programming languages. (10)(b) Write about the structure and operation of a computer. (10)Q2. What is a data type? Write about basic elements of specification and implementation of data type. (20)Q3. (a) What is a vector? Write about its attributes. Support with example. (10)(b) What are major operations on sequential files? (10)Q4. (a) Differentiate between implicit and explicit sequence control. (10)(b) What are recursive subprograms and how are they implemented? (10)Q5. (a) What are the two ways of data object availability? (10)(b) Write about the static scope rules associated with block structured program. (10)Q6. (a) What is lack of ambiguity. Support with example. (10)(b) Differentiate between syntactic and semantic analysis. (10)Q7. Write about stack based storage management. (20)Q8. Write short note on **Data Abstraction** a) (10)Batch processing environments b) (10)

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