

Code: CS4T2

**II B.Tech - II Semester – Regular Examinations - JUNE 2014**

**PRINCIPLES OF PROGRAMMING LANGUAGES  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. a) Discuss language evaluation criteria. 8 M
  - b) Write briefly about the four paradigms under which today's programming languages is classified. 6 M
2. a) Define attribute grammars. What are the features of attribute grammars? 6 M
  - b) Write about Backus\_naur and contest free grammar. 8 M
3. a) Write the difference between Type conversion, Type coercion, Non converting type casts. 5 M
  - b) What is Dangling reference? 4 M
  - c) Write about the design issues of an array. 5 M
4. a) Write about guarded commands. 6 M

- b) Discuss about functional side effects with an example. 8 M
5. a) Discuss Parameter Passing Methods. 10 M
- b) Define co-routine. 4 M
6. a) What advantages do monitors have over semaphores?  
Explain. 7 M
- b) Describe the concept of ADT in terms of User Defined  
Data Types? 7 M
7. a) Explain the concept of Exception Handling. What are the  
design issues for Exception Handling system? 8 M
- b) What are the applications of logic programming? 6 M
8. a) Write about LISP. 8 M
- b) Explain Type Inferencing in ML. 6 M