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Code No: 09A50501

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year I Semester Examinations, May/June - 2013

Principles of Programming Languages (Computer Science and Engineering)

Time: 3 hours

AF:

Max. Marks: 75

Answer any five questions All questions carry equal marks

various programming What is meant by programming paradigm? Explain 1. paradigms with examples. Write BNF description for arithmetic expressions that implements the operator hierarchy of any imperative language. Discuss with an example operator precedence grammar. [15] 3.a) Briefly explain the specification and implementation aspects of the following data types. i) Boolean ii) Character What do you mean by dangling reference? Explain with an example. [15] [15] Discuss in detail the design issues for arithmetic expressions. 4. Define scope. Explain the static scope and dynamic scope with examples. 5.a) [15] Explain pass by result parameter passing technique in detail. 88 8R Discuss how producer-consumer problem and Dining philosopher's problem are solved using concurrency in ADA. [15] 7.a)Discuss how exception handlers are helpful in C++ exception handling. Explain the use of java finally clause in exception handling. [15] Explain some of the important functions of LISP. [15] Describe procedural abstraction in Python.

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