Code No: 09A50501

R09

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

Max. Marks: 75

Answer any five questions All questions carry equal marks

What is meant by programming paradigm? Explain 1. various programming paradigms with examples. [15] Write BNF description for arithmetic expressions that implements the operator hierarchy of any imperative language. b) 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] Discuss in detail the design issues for arithmetic expressions. 4. [15] Define scope. Explain the static scope and dynamic scope with examples. Explain pass by result parameter passing technique in detail. 8R [15] Discuss how producer-consumer problem and Dining philosopher's problem are solved using concurrency in ADA. [15] Discuss how exception handlers are helpful in C++ exception handling. Explain the use of java finally clause in exception handling. [15] 8.a) Explain some of the important functions of LISP. Describe procedural abstraction in Python. [15] are
