R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2017
PRINCIPLES OF PROGRAMMING LANGUAGES
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

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1.a) What are the reasons for studying programming languages?
  b) Write about logic programming.   [7+8]

2. Explain about denotational and axiomatic semantics.   [15]

3.a) Explain arrays and record datatypes.
  b) What are named constants?   [8+7]

4.a) What are guarded commands?
  b) Explain various control structures.   [7+8]

5.a) What is scope and life time of variable?
  b) Explain about co-routines.   [7+8]

6. Explain about following:
   a) C++ parameterized ADT.
   b) Semaphores.   [7+8]

7.a) Explain about exception handling in Ada.
  b) What are the applications of logic programming?   [8+7]

8.a) Write about LISP.
  b) Explain about binding and scope of variables in python.   [7+8]

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