

Code :RA07A40501

RA

III B.Tech I Semester(R07) Supplementary Examinations, May 2011
PRINCIPLES OF PROGRAMMING LANGUAGES

(Computer Science & Engineering)

(For students of RR, R05 regulation readmitted to III B.Tech I Semester R07)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Explain in detail about the hybrid implementation system.
(b) Mention the reasons to study the programming languages.
2. (a) Describe the basic concepts of denotational semantics.
(b) Define syntax and semantics. Write the attribute grammar for simple assignment statement.
3. (a) Write a detailed note on user defined data types.
(b) Define a pointer. Mention the design issues of pointers. List and explain the problems with pointers.
4. (a) Give brief description about the assignment statements.
(b) Explain the "for" statement in Ada and C language with example.
5. (a) List and explain the design issues of functions.
(b) Write a detailed note on co routines.
(c) Explain pass by result parameter passing technique.
6. Write a short notes on the following:
(a) Semaphores.
(b) Monitors.
7. (a) Explain the exception handling mechanism in C++.
(b) Discuss briefly about the list structure in prolog.
8. (a) What are the advantages of Haskell over ML. Explain in detail about the Haskell.
(b) Compare and contrast between functional and imperative languages.
