R07

Code No: 07A40501

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B.Tech II Year II Semester Examinations, November / December-2013 PRINCIPLES OF PROGRAMMING LANGUAGES (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 hours

Max. Marks: 80

Answer any five questions All questions carry equal marks

1.a) b)	Draw and explain the flow chart for compilation process. Describe the important factors influencing the writability of a language.	[16]
2.a) b)	Describe about the static and dynamic semantics. Explain about the attribute grammer with an example.	[16]
3.a) b)	Distinguish between pascal union types and Ada union types with an exam Describe about the static and dynamic scope of variables with an example	
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4.a)	Explain about the compound assignment and unary assignment operations example	with an
b)	Explain about the DO statement of FORTRAN 77 and FORTRAN 90.	[16]
5.a) b)	Distinguish between procedures and functions with an example. Explain about the coroutines.	£1.63
c)	Explain about the user defined overloaded operators.	[16]
6.a) b)	Explain about Java threads. Explain the design issues for object oriented languages.	[16]
7.a) b) c)	Discuss how exceptions are handled in C++. Explain the relationship between resolution and unification in prolog. What are the three forms of prolog term?	[16]
8.a) b)	Explain about the fundamentals of functional programming languages. Distinguish between functional and imperative languages.	[16]
