P6	P6 P6 P6 P6	P6
Code No: 125AN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD		
PO _{Time:}	B.Tech III Year I Semester Examinations, November/December - 2017 PRINCIPLES OF PROGRAMMING LANGUAGES Computer Science and Engineering) Max. Mar	ks: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub-questions. PART-A (25 N	
1.a) b) c) d) e) f) g) h)	List the principal phases of compilation. Explain the features of denotational semantics. Explain about guarded commands. Differentiate between user defined and primitive data types with an example. Explain about the local referencing environments. Explain the design issues for functions. Explain the parts of smalltalk class. Distinguish between Competitive Synchronization and Cooperation synchronical contents.	[2] [3] [2] [3] [2] [3] [2] ization.
	What is the type inferencing used in ML What are the applications of functional programming languages. PART - B (50 M	[2] [3] [3] Marks)
2.a) b) 3.a) b)	Distinguish between ambiguous grammer and attribute grammar with an example Construct the parse tree for the simple statement. $A := B * (A + C)$ Explain about the preconditions and postconditions of a given statement maximatic semantics. Describe the important factors influencing the writability of a language.	[5+5]
4.a) b) 5.a) b)	Describe about the pointers in FORTRAN 90, Ada, pascal with an example. Write the syntax and semantic rule of an attribute grammer for simple assistatements. Explain about the control structures with an example. Explain the different types of Union with an example.	gnment [5+5])
6. 7.a) b)	Explain the different parameter passing methods with an example. OR What is an overloaded subprogram explain with an example. What are the characteristics of co-routine feature? List the languages which coroutines.	[10] n allow [5+5]

