## Code No.114DJ

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2016 PRINCIPLES OF PROGRAMMING LANGUAGES (Information Technology)

**Time: 3 Hours** Max. Marks: 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. Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.		
	PART – A	(25 Marks)
1.a) b) c) d) e) f) g) h) i)	What is syntax and semantics? Differentiate between BNF and EBNF. What is strong typing? Give a note on guarded commands? What is the difference between co-routines and sub programs? What are local referencing environments? Give a note on C# threads. What is exception propagation? What is a scripting language? Give examples. Compare functional, imperative and scripting languages.	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
	PART – B	(50 Marks)
2.	What are parse trees? Discuss about ambiguous gramma grammars.  OR	rs and attribute [10]
3.	Discuss about denotational semantics and axiomatic semant programming language features.	ics for common [10]
4.	Explain the various control structures of any two object orien languages.  OR	ted programming [10]
5.	Explain the data types of Java and C#.	[10]
6.	Discuss in detail about the design issues of subprograms, overloaded operators.  OR	operations and [10]
7.	Explain the parameter passing methods in C++ and Java.	[10]
8.	Give an introduction and overview of logic programming a application of logic programming in prolog with an illustration.  OR	nd discuss about [10]
9.	Write a short note on Small talk and Ada 95.	[10]
10.	Discuss about the types and control structures in python with an	illustration. [10]

OR

Discuss about the fundamentals of FPL and Haskell and its applications. **www.ManaResults.co.** in 11.