## Code No: 124DJ

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2017 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 B consists of 5 Units. Answer any one full question from ea Each question carries 10 marks and may have a, b, c as sub questions.			
PART- A				
1.a) b) c) d) e) f) g) h)	Define parsing. Differentiate between procedural languages and object oriented languages. What mixed-mode assignments are allowed in C and Java? Write any two design issues for arithmetic expressions. What is meant by static and dynamic allocation? List design issues of sub programs. Define monitor. What is the difference between checked and unchecked exception in jaw. What data types were parts of original LISP?	[2] [3] [2] [3] [2] va? [3] [2]		
j)	What type inferencing is used in ML?	[3]		
	PART-B	( <b>50.35</b>		
2.a) b)	What do you mean by axiomatic semantics? Explain with an computation of weakest precondition for a sequence of statements. What are the factors that influence the basic design of programming land			
2 \	OR			
3.a) b)	Describe the basic concept of denotational semantics.  Explain in detail about various language evaluation criteria and the chataffect them.	aracteristics [5+5]		
4.a) b)	Explain about stack dynamic variables and explicit heap dynamic variables.  Explain about heap management of a single size and variable size segments. [5+5]  OR			
5.a) b)	Explain about subscript bindings and various array categories. What are guarded commands? Explain.	[5+5]		
6.a) b)	Explain how subprogram is overloaded. Give examples.  Explain about parameterized abstract data types with an example in C.  OR	[5+5]		
7.a) b)	Explain how various implementation models of parameter passing a implemented.  Distinguish between name type compatibility and structure type cousing examples. www. ManaResults.co.in	ompatibility		

8.a)	Explain in brief about exception handling in Ada.		
b)	Discuss in detail Terms and Goals statements in Prolog.	[5+5]	
	OR		
9.a)	What is a semaphore? What are the operations performed on a semaphore?		
b)	Write short notes on C# threads.	[5+5]	
10.a)	Explain the basic primitives of LISP. Give suitable examples.		
b)	Explain in detail ML inferencing process.	[5+5]	
,	OR		
11.a)	Explain about the data types and their values in python.		
b)	What is the importance of module library in python?	[5+5]	
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