using examples.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2017

PRINCIPLES OF PROGRAMMING LANGUAGES

	(Information Technology)								
28	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.								
	as as as as as								
	PART- A (25 Marks)								
	1.a) Define parsing. [2]								
	b) Differentiate between procedural languages and object oriented languages. [3]								
	c) What mixed-mode assignments are allowed in C and Java? [2]								
	d) Write any two design issues for arithmetic expressions. [3]								
	e) What is meant by static and dynamic allocation? [2]								
OA	f) List design issues of sub programs.								
	g) Define monitor. [2]								
	h) What is the difference between checked and unchecked exception in java? [3] i) What data types were parts of original LISP? [2]								
	i) What data types were parts of original LISP? [2]j) What type inferencing is used in ML? [3]								
	j) What type inferencing is used in MD.								
	PART-B								
26	2.a) What do you mean by axiomatic semantics? Explain with an illustration computation of weakest precondition for a sequence of statements.								
	b) What are the factors that influence the basic design of programming languages?								
	[5+5]								
	OR 3.a) Describe the basic concept of denotational semantics.								
	3.a) Describe the basic concept of denotational semantics.b) Explain in detail about various language evaluation criteria and the characteristics								
J.	that affect them [5+5]								
	4.a) Explain about stack dynamic variables and explicit heap dynamic variables.								
	b) Explain about heap management of a single size and variable size segments. [5+5]								
	5.a) Explain about subscript bindings and various array categories.								
	5.a) Explain about subscript bindings and various array categories.b) What are guarded commands? Explain. [5+5]								
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SHE AND A	6.a) Explain how subprogram is overloaded. Give examples.								
	b) Explain about parameterized abstract data types with an example in C [5+5]								
	OR								
	7.a) Explain how various implementation models of parameter passing are actually								
	implemented. b) Distinguish between name type compatibility and structure type compatibility								
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	 8.a) Explain in brief about exception handling in Ada. b) Discuss in detail Terms and Goals statements in Prolog. OR 						
26	b) Write sho	rt notes on C# th	at are the operation	26	20 [5	+5]26	2
	10.a) Explain the basic primitives of LISP. Give suitable examples. b) Explain in detail ML inferencing process. OR 11.a) Explain about the data types and their values in python.						
26			module library in		[5	+5]	
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