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Со	de No: 115AN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY H	R13 YDERABAD				
AG	B. Tech III Year I Semester Examinations, May - 2018 PRINCIPLES OF PROGRAMMING LANGUAGES (Computer Science and Engineering)	Max. Marks: 75				
Not	Part A is compulsory which carries 25 marks. Answer all questions consists of 5 Units. Answer any one full question from each unit. Ea 10 marks and may have a, b, c as sub questions. PART-A	ch question carries				
1.a)	In what way do operational semantics differ from denotational seman	,				
b)	A programming language can be compiled or interpreted. Give relati	tics? [2] ve advantages and				
(c) (d) (e) (f)	How pointers are represented and used in C and C++? What are the different categories of subprograms? Give a brief note on Scope and lifetime of variable.	[3] [2] [3] [2] [3]				
(g) (h) (i) (j)	What is the purpose of the Java Finally clause? Explain the applications of logic programming. Write about functions in ML and Haskell. Discuss the storage and Control in python.	[2] [3] [2] [3]\ \				
PART - B						
		(50 Marks)				
2.a) b) 3.a) b)	What is need for study of programming languages? Explain. Describe the Programming Paradigms. OR Define Ambiguity. Write short notes on attributed grammars. Explain briefly about the Denotational semantics with example.	[5+5] [5+5]				
4.	What is an array? Explain about various array operations with an exam	nple. [10]				
5.a) b) 6.	Explain the syntax of Ada Union Type. List and explain the design issues for all iterative control statements. Describe the Design issues of subprograms and operations. OR					
7.a) b)	Briefly explain the static and dynamic scope. What are the general subprogram characteristics? Explain.	[5+5]				
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8. 	problem wit	w Binary semaph th example pseudo eption handling?	o code.			[10]	A
10. 11.	b) Discuss the	difference betwee data types suppor common characte	ted in Python. OR		ages?	[5+5] [10]	
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