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Cor	de No: 125AN	I	R15	
Coc	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSIT B. Tech III Year I Semester Examinations, May -		AD	
	PRINCIPLES OF PROGRAMMING LANGUA (Computer Science and Engineering) 1e: 3 hours	GES Max. Max.	Arks: 75	1
Not	e: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all que	stions in Part A	. Part B	
	consists of 5 Units. Answer any one full question from each uni 10 marks and may have a, b, c as sub questions.	t. Each questio	n carries	/
	10 marks and may have a, b, c as sub questions. PART - A			/_
		(25	Marks)	
1.a) b)	In what way do operational semantics differ from denotational se A programming language can be compiled or interpreted. Give		[2] ages and	
^ (_ c)	disadvantages of compilation and interpretation.	المنتقدين الإ	[3]	/
/\\\ d) e)	How pointers are represented and used in C and C++? What are the different categories of subprograms?		[2 <u>y</u> \ [3] [2]	/-
f)	Give a brief note on Scope and lifetime of variable. What is the purpose of the Java Finally clause?		[3]	
g) h)	Explain the applications of logic programming.		[2] [3]	
	Write about functions in ML and Haskell. Discuss the storage and Control in python.	AG	[3]	/
	PART - B			
		Marks)		
2.a)	What is need for study of programming languages? Explain. Describe the Programming Paradigms.	A	[5+5]	A
△ (3.a)	Define Ambiguity. Write short notes on attributed grammars.	A(j		/
b)	Explain briefly about the Denotational semantics with example.		[5+5]	
4.	What is an array? Explain about various array operations with an OR	example.	[10]	
5.a)	Explain the syntax of Ada Union Type.		re /ea /	
A = b	List and explain the design issues for all iterative control stateme	mis/	[5#5]	/_
6.	Describe the Design issues of subprograms and operations. OR		[10]	
7.a) b)	Briefly explain the static and dynamic scope. What are the general subprogram characteristics? Explain.		[5+5]	
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	8. AG.	problem wit What is exce	w Binary semaph h example pseudo eption handling?	o code. OR Explain about ex	ception handling	in Java.	F101	A
(11.	b) Discuss the Explain the	difference betweed data types support common characters	ted in Python. OR eristics of the scri	pting languages.		[5+5] [10] \triangle	A
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