R15 Code No: 124DJ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech II Year II Semester Examinations, April/May - 2023 PRINCIPLES OF PROGRAMMING LANGUAGES (Information Technology)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

- ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
- iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

	(25	Marks)
1.a) b) c) d) e) f) g) h) i) j)	What is the difference between syntax and semantics? What are the uses of BNF and EBNF? What are named constants? Give an example? List the issues related to aliasing. What is local referencing environment? Give an example for parameters that are subprograms. How do you create a thread in Java? Give example? List the applications of logic programming. What are the features of ML? What are the uses of module hibrary?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
	PART - B	
		Marks)
2.a) b)	List and deserve different language domains. Discuss various language paradigms. OR	[5+5]
3.a) b)	List and explain different phases of compilation process. What is attribute grammar? Give an example.	[5+5]
4.a)	What are the different primitive data types provided by various languages	? Discuss
b)	with examples? Define binding, type checking, strong typing, and aliasing. OR	[5+5]
5.a) b)	What is the need for iterative statements? Give examples. What are user defined data types? Give the syntax and purpose of them.	[5+5]
6.a) b)	Discuss the design issues of sub programming. What is static scope and dynamic scope? Explain the evaluation procedure. OR	[5+5]
7.a) b)	Explain different parameter passing methods. Discuss the design issues and advantages of overloaded sub programming.	[5+5]

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8.a) b)	In detail, discuss the object oriented concepts in Ada 95. What are the basic elements of Prolog?	[5+5]
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9.a)	How does concurrency is achieved by using Monitors? Discuss.	
b)	What is an exception? What is exception propagation?	[5+5]
10.a)	Give the features of LISP.	
b)	Compare functional and imperative languages. OR	[5+5]
11.a)	In detail give the key concepts of scripting language.	
b)	Write a short notes on uses of separate compilation.	[5+5]
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