Code No: R203146E



PRINCIPLES OF PROGRAMMING LANGUAGES			
Time: 3 hours Max. Marks: 70			
		Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks	
		<u>UNIT-I</u>	
1.	a) b)	Discuss the formal methods of describing syntax. What is Context Free Grammar? Explain with an example. (OR)	[7M] [7M]
2.	a)	Briefly discuss the evolution of programming languages.	[7M]
	b)	Define Parsing. Explain the types of parsers.	[7M]
3.	a)	Explain in detail about the Static binding and Dynamic binding.	[7M]
	b)	Write about Scope and Lifetime of a variable with an example.	[7M]
4.	a)	What is the difference between Indexed array and Associative array?	[7M]
	b)	Explain about Operator overloading and its benefits.	[7M]
5.	a)	Discuss the design issues for Subprograms.	[7M]
	b)	Write about pass-by-value result implementation model for parameter passing with an example.	[7M]
6.	a)	What is meant by subprograms reference environment?	[4M]
	b)	Explain the following i)Nested subprograms ii)Static and Dynamic Scoping	[10M]
7.	a)	<u>UNIT-IV</u> Define the following (i)Visibility and Information Hiding (ii)	[7M]
	b)	Describe the states of a Thread in JAVA and Ada.	[7M]
8.	a)	How the object-oriented paradigm supports code reuse?	[7M]
	b)	Explain the key components of Event – driven programming.	[7M]
9	a)	<u>UNIT-V</u> List and Explain the distinguishing characteristics of functional	[7M]
2.	ų	programming languages.	[,]
	b)	Give the syntax of Lambda Calculus and explain the process of evaluating Lambda Calculus.	[7M]
10.	a)	(OR) Explain the syntax of Recursion and Iteration construct in the	[7M]
-0.	~,	Scheme programming.	[]
	b)	Write a Prolog program that finds the maximum of a list of numbers.	[7M]

III B. Tech I Semester Regular Examinations. Dec/Jan - 2022-23

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