Printed	l Page	1 of 1	St	ıb (Code	e: R	cs	503
Paper		110503 Roll No:	I					
Time:	2 Uou	B. TECH (SEM V) THEORY EXAMINATION 2019-20 PRINCIPLES OF PROGRAMMING LANGUAGES				_		
		empt all Sections. If require any missing data; then choose suitab			irks	s: 70	,	
		on productions in require any anissing data, then encose suitab	ny.					
		SECTION A						
1.		npt all questions in brief.			x 7	<i>t</i> = 1	4	
	(a)	What are advantages and disadvantages of dynamic local varia	bles	s?				
	(b)	Explain a lambda expression.						
	(c)	Explain about parsing.						
	(d)	Define pass by result.						
	(e)	Write any two design issues for arithmetic expressions.						
	(f)	Explain fundamentals of functional programming language.						
	(g)	What is an overriding method?						
		SECTION B						
2.	Atten	npt any three of the following:		7	x 3	3 = 2	21	
	(a)	Explain about static, fixed stack dynamic, fixed heap dynamic arrays.	and	l dy	'nan	nic		
	(b)	Write notes on coercion expressions and short-circuit evaluatio	n.					. *
	(c)	Write differences between procedural and non-procedural lang	uag	ges.				
	(d)	Discuss about language recognizers and language generators.				\$ -2	٠,	- '
	(e)	What is an event? How the events are handled in various OOP	lan	gua	iges		×, "	
		SECTION C		2	Å.J.			
3.	Atten	npt any <i>one</i> part of the following:	<i>*</i> {	7	x 1	= 7	7	
	(a)	Write notes on context free grammars. How to identify whethe unambiguous?						
	(b)	Define name and structure type compatibility. What are relative two?	e m	nerit	is o	f th	ese	
4	Atton	not any and part of the following:		~	1		,	
4.		npt any one part of the following: What mixed-mode assignments are allowed in C and Java?		,	ХI	= 1	f	
	(a) (b)	Explain various primitive data types with suitable examples.						
	(0)	Explain various printitive data types with Suitable examples.						
5.	Atten	npt any <i>one</i> part of the following:		7	x 1	l = '	7	
	(a)	Define a subprogram. Write the semantics of call and return of	as	ubr	rog	gran	a.	
	(b)	Explain in detail various design issues of character string types	ì.					
6.	Atten	npt any <i>one</i> part of the following:		7	y 1	l = '	7	
	(a)	Explain how message passing helps in concurrency control? Exexample.	xpla					
	(b)	Define monitor? Explain how cooperation synchronization and synchronization are implemented using monitors.	l co	mp	etit	ion		

and including all descendants. Be sure to include all relationships

Explain in what ways ML is different from Scheme.

Write a prolog description of your family tree, going back to your grandparents

Attempt any one part of the following:

7.

(a)

(b)

 $7 \times 1 = 7$