

Code NO: RT31053		NO: RT31053	SET - 1
III B. Tech I Semester Supplementary Examinations, May - 2017 PRINCIPLES OF PROGRAMMING LANGUAGES (Computer Science and Engineering)			
Tiı	Time: 3 hours Max. Mar		
2. Answering the question in Part-A is compulsory 3. Answer any THREE Questions from Part-B			
<u>PART –A</u>			
1	a)	Write BNF notation for if-else statements.	[4M]
	b)	What is a dangling pointer?	[4M]
	c)	Define pass by result.	[3M]
	d)	Define mutual exclusion.	[4M]
	e)	What type inferencing is used in ML?	[4M]
	f)	List different forms of prolog term.	[3M]
PART -B			
2	a)	List and explain different phases of compilation process.	[8M]
	b)	Write notes on context free grammars. How to identify whether a grammar is unambiguous?	[8M]
3	a)	Explain about static, fixed stack dynamic, fixed heap dynamic and dynamic arrays.	[8M]
	b)	List and explain design issues of pointers.	[8M]
4	a)	Discuss about scope and lifetime of a variable. What are the advantages of dynamic scoping over static scoping?	[8M]
	b)	Explain different types of parameter passing techniques.	[8M]
5	a)	Explain about different mechanisms to implement polymorphism in C++.	[8M]
	b)	Explain how message passing helps in concurrency control? Explain with an example.	[8M]
6	a)	Write a LISP function that computes n th Fibonacci number.	[8M]
	b)	Explain in what ways ML is different from Scheme.	[8M]
7	a)	What are the applications of logic programming? Explain.	[8M]
	b)	Discuss about goal statements in prolog.	[8M]
