**SET** - 1

## II B. Tech II Semester Supplementary Examinations, April - 2021 PRINCIPLES OF PROGRAMMING LANGUAGES

(Com to CSE, IT)

Time: 3 hours			Max. Marks: 70	
		Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B		
		<u>PART –A</u>		
1.	a)	Write BNF notation for 'do-while' loop.	(3M)	
	b)	Write a brief note on aliases.	(2M)	
	c)	Give an example for constructor overloading in Java.	(2M)	
	d)	Explain about cooperation synchronization with monitors.	(2M)	
	e)	Define domain set and range set w.r.to functional languages.	(3M)	
	f)	Define logic programming.	(2M)	
		PART -B		
2.	a)	Give a comparison between Fortran, COBOL and Lisp.	(7M)	
	b)	Discuss about language recognizers and language generators.	(7M)	
3.	a)	Write about static variables, stack dynamic variables and heap dynamic variables.	(7M)	
	b)	What are the four times bindings can take place in a program? Explain with examples.	(7M)	
4.	a)	Explain the design considerations for choosing parameter passing methods.	(7M)	
	b)	Write about generic subprograms in Ada and C++.	(7M)	
5.	a)	Differentiate between procedural and object oriented languages.	(7M)	
	b)	What are the merits and demerits of subprogram level concurrency?	(7M)	
6.	a)	Discuss about function declarations and control statements in ML.	(7M)	
	b)	What is Common LISP? Compare it with LISP.	(7M)	
7.	a)		(7M)	
٠.	a) b)	What is the purpose of predicate calculus? How it helps in theorem proving?	(7M)	
	U)	Write about list structures in Prolog.	(71 <b>V1</b> )	