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**R16** 

SET-1

## II B. Tech II Semester Regular Examinations, November - 2018 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** 

PART -A			
1.	a)	What are general purpose languages? Give some examples.	(2M)
	b)	List the merits of sub range types.	(3M)
	c)	Differentiate between procedures and functions.	(2M)
	d)	What is mutual exclusion? Give example.	(2M)
	e)	Define procedural abstraction.	(2M)
	f)	What are terms and atoms in Prolog?	(3M)
PART -B			
2.	a)	Explain different phases of compilation.	(7M)
	b)	Write BNF notation for 'for loop', 'if-else condition' and structure definition in C.	(7M)
3.	a)	Is static binding more reliable or dynamic binding? Explain why.	(7M)
	b)	Present the classification of arrays based on subscript binding. Give programming examples.	(7M)
4.	a)	Discuss about pass-by-result and pass-by-value-result parameter passing methods, with a detailed programming example for each.	(7M)
	b)	Discuss about deep access and shallow access methods for implementing dynamic scoping.	(7M)
5.	a)	Discuss how producer consumer problem can be solved using concurrency in Java.	(7M)
	b)	Discuss about exception handling in C++.	(7M)
6.	a)	Write about functional forms in LISP.	(7M)
	b)	Give a comparison between ML and Haskell.	(7M)
7.	a)	Explain about the inferencing process of Prolog.	(7M)
	b)	List and explain the applications of logic programming.	(7M)

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