No. of Printed Pages: 3

**BICS-015** 

Maximum Marks: 70

P.T.O.

## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

## **Term-End Examination**

00048

Time: 3 hours

**BICS-015** 

June, 2015

## BICS-015: PRINCIPLES OF PROGRAMMING LANGUAGES

<b>Note:</b> Attempt any <b>seven</b> questions. All questions carry equal marks.				
1.	(a)	What are the factors that influence the basic design of programming language?	5	
	(b)	Explain about various programming domains.	5	
2.	(a)	What is the scope of a loop parameter in ADA? Compare it with static and dynamic scope.	5	
	(b)	Explain exception handling in ADA.	5	
8.	(a)	Define pointer in 'C' programming.  Differentiate between call by value and call by reference with examples.	. 6	
	(b)	Define static binding and dynamic binding.	4	

4.	(a)	What is the basic concept of declarative		
		semantics? Explain.	5	
	(b)	What is array? Explain the different types		
		of array.	5	
5.	Defi	ne the following with examples: $5 \times 2$	=10	
	(a)	Object	-	
	(b)	Class		
	(c)	Public Class		
	(d)	Private Class		
	(e)	Protected Class		
6.	Com	pare COBOL and 'C' based on the following:	10	
	(a)	Data structure concept		
	(b)	Sequence control		
	(c)	Subprogram facility		
	(d)	Storage management		
	(e)	Block structure	•	
7.	(a)	What are the language design issues for		
		abstract data types?	5	
	(b)	Explain the concept of Multiple Inheritance		
		with the help of suitable C++ example.	5	
8.	(a)	What are the differences between CONS,		
		LIST and APPEND?	5	
	( <b>b</b> )	Write a LISP function Fib(n) that computes		
		n <sup>th</sup> Fibonacci number.	5	

- 9. (a) Describe the structure of a COBOL program with the help of example.
  - (b) Describe the different ways of using PERFORM verb in COBOL. 5
- 10. Write short notes on any **two** of the following:  $2\times 5=10$ 
  - (a) PROLOG
  - (b) File Processing
  - (c) Data Abstraction and Information Hiding