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No. of Printed Pages : 3

**BICS-015**

**B.Tech. - VIEP - COMPUTER SCIENCE AND  
ENGINEERING**

**(BTCSVI)**

**Term-End Examination, 2019**

**BICS-015 : PRINCIPLES OF PROGRAMMING  
LANGUAGES**

**Time : 3 Hours]**

**[Maximum Marks : 70]**

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**Note : Attempt any seven questions in all. Each question carries equal marks.**

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1. (a) What is need of different types of programming languages ? [5]  
(b) Explain the concept of pointer in C. [5]
2. (a) What is multidimensional array ? Explain memory allocation in multidimensional array. [5]  
(b) Explain concept of abstract class with the help of example. [5]

3. (a) Explain why conceptually programming using C++ is better in compare to programming using C. [5]
- (b) What is Inheritance ? Explain its advantages with the help of example. [5]
4. (a) Explain concept of public and protected members in Java. [5]
- (b) Briefly explain different data types in PROLOG.[5]
5. (a) Explain concepts of object and class in OOP.[5]
- (b) Explain the four divisions in COBOL. [5]
6. (a) Explain features of ADA programming language. [5]
- (b) Briefly explain the nature of applications developed using LISP. [5]
7. (a) What is dynamic binding ? Explain with the help of an example. [5]
- (b) Briefly explain different looping options in C++. [5]

8. (a) Explain concept of data abstraction and data encapsulation in OOP with the help of example(s). [5]
- (b) Is Java a pure object oriented programming language ? Justify your answer. [5]
9. (a) Explain use of Switch statement in programming. [5]
- (b) Explain use of ADD and SUBTRACT statements in COBOL. [5]
10. (a) Explain how file sorting takes place in COBOL. [5]
- (b) What is Prototype ? Explain use of prototype in C programming. [5]

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