BICS-015

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2017

00819

BICS-015 : PRINCIPLES OF PROGRAMMING LANGUAGES

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any **seven** questions. All questions carry equal marks.*

1. (a) Explain the reasons for studying concepts of programming languages.   *5*

   (b) What are L and R values ?   *5*

2. (a) What is a Data Type ? Explain different data types.   *5*

   (b) Explain various control structures.   *5*

3. (a) Explain different types of statements.   *5*

   (b) Explain pointers in C programming language with examples.   *5*

4. (a) Define Function and Types of Functions. *5*

   (b) Explain Conditional branching and Unconditional branching. *5*

5. (a) Write about LISP. *5*

   (b) Explain the programming style in LISP. *5*

6. (a) Explain recursion in PROLOG. *5*

   (b) What are the various I/O statements in PROLOG ? *5*

7. (a) Explain OOPS Concepts. *5*

   (b) Explain different types of classes. *5*

8. (a) Write the concept of inheritance. *5*

   (b) List out various types of inheritance. *5*

9. (a) What are the divisions and sections in COBOL ? *5*

   (b) Explain LOOP type statement in COBOL. *5*

10. (a) Write about file sorting and merging in COBOL. *5*

   (b) Discuss about PROLOG, ADA and JAVA. *5*