2018
COMPUTER SCIENCE AND TECHNOLOGY
CSIT : 3.4
PROGRAMMING LANGUAGE
Full Marks: 80

Time: 3 Hours

The figures in the margin indicates full marks for the questions :

1. (a) What is OOP paradigm? Mention some of its features. Also mention some of its benefits and application.   3+3+3+1=10

   (b) What are the different categories of PL? Explain with example. 10

   Or

   Explain Encapsulation, Polymorphism, and Inheritance.

2. (a) Explain Pascal and Fortran language with example.   5+5=10

   Or

   Differentiate between procedural language and OOP language.

   (b) Mention some attributes of good programming language.   6

   (c) Explain the concept of inheritance.   4

3. (a) Differentiate between constructor and destructor.   3+3=6

   (b) What are the different statements of imperative programming language? Explain with example briefly.   10

   Or

   Explain parameter passing methods.

   (c) Explain Binding and Binding Times.   4

P.T.O.

4. (a) Why we study PL? 6

(b) Simplify: (*1 (*a (+ 0 b 0))) into (* a b) 5

(c) Represent the below list in a tree representation 3+3+3=9
  (a) (It seems (that) you (like apple)
  (b) ((It seems that) you (like) orange)
  (c) (It (seems) that (you like) mango)

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