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CS 131405

BINA CHOWDHURY CENTRAL LIBRARY
(GIMT & GIPS)
Azara, Matkhowapara,
Guwahati - 781017

Roll No. of candidate

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2019

B.Tech. 4th Semester End-Term Examination
PRINCIPLES OF PROGRAMMING LANGUAGE

(New Regulation)

(w.e.f. 2017-2018)

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer Question No. 1 and any *four* from the rest.

1. Answer the following : (MCQ/Fill in the blanks)

- (i) _____ is the field concerned with rigorous mathematical study of meaning of programming language.
- (ii) FORTRAN is an object oriented language.
- (iii) _____ translates the program directly into code that is specific to the target machine.
- (iv) _____ is the act of associating properties with names and _____ is the moment in programs life cycle when this association occur.

[Turn over

- (v) A _____ is a group of statements that perform a well defined task.
- (vi) LISP expressions are called _____ expression.
- (vii) An _____ is a number or string of contiguous characters.
- (viii) _____ contain classes for creating applets.
- (ix) _____ is Procedural PL developed in 1968 and named in honor of French mathematician.
2. (a) Write features of imperative language. Write a program in Pascal to find the area of a circle. (10 + 5)
- (b) What do you mean by records in Pascal? Give its syntax.
3. (a) What is java package? Write advantages of java package. (7 + 8)
- (b) Define thread. What are the two ways to implement thread?
4. (a) Write a C++ program to show different types of inheritance. (10 + 5)
- (b) Write difference between Applet and Application.
5. (a) Write features of functional programming. Mention applications of LISP. (10 + 5)
- (b) Write a program in LISP to find the factorial of a number.

6. (a) What are different parameter passing mechanism in function? What do you mean by friend function? (10 + 5)
- (b) Write different types of query in PROLOG. State with example.
7. (a) What is Chomsky Hierarchy? State different types of grammar in Chomsky Hierarchy. (10 + 5)
- (b) What are the major stages in compiler?

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