KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food. Engg) 2012 Admission

III rd Semester Final Examination- December /January -2013

Cat. No: Basc.2107 **Marks: 80**

Title: Computer Programming (1+1) **Time: 3 hours**

1. **A)** State whether the following statements are valid in C++ (Q.Nos 1 to 5) **(10x1=10)**
   1) Char string[4]="xyz";
   2) float sum=0;
   3) float area=π * rad * rad;
   4) int *p=new int; where p is a pointer of type int.
   5) t4=New Delhi

   B) Find errors if any:- (Q. Nos 6 to 8)
   6) long float x;
   7) int code=three;
   8) int *p=new;

   9) An unsigned integer can be twice as large as signed Integer. Explain how
   10) What is a reference variable? What is the significance of this variable?

II. Write short notes on any ten:- (10x3=30)

1) Distinguish between variable and constants.
2) What is the use of function putdata() and getdata().
3) Write short note on Hierarchy of Arithmetic operators.
4) Explain unconditional branching statement.
5) What is polymorphism.
6) What is a file mode? Describe the various file mode options available.
7) Differentiate between recursion and iteration
8) Explain the use of keyword struct().
9) What is operator overloading?
10) What is a virtual base class?
11) What is the use of the pointer
12) Explain the use of cin and cout.

III. Write short essays on any six:- (6x5=30)

1) Write a program in C++ to check whether the given number is prime or not.
2) Write a program in C++ to find the sum of odd numbers from 1 to 15.
3) Explain Simple IF and IF…ELSE statement.
4) Explain the difference between Do.. While and While statement.
5) Explain FOR Loop with an example.
6) Write short note on FILES.
7) Write a program in C++ to reverse a given number.
8) Write a program in C++ to solve quadratic equation.

IV. Write essay on any one:- (1x10=10)

1) Explain One dimensional and two dimensional array. Write a program in C++ to find the largest of n numbers using FOR LOOP and array.
2) Write a program in C++ to store a 3x3 matrix and rotate the columns according to the number of rotations.

Example:-

Original matrix	Output (Rotations=2)
3 1 4	1 4 3
4 0 6	0 6 4
7 9 2	9 2 7