KERALA AGRICULTURAL UNIVERSITY

B.Tech.Food Engg. 2015 Admission

IIIrd Semester Final Examination-January 2017

Cat. No: Basc. 2107

Title: Computer Programming (1+1)

Marks: 50

Time : 2 hours

I. Answer the following: (10 x 1=10)

1. What is a type cast operator?
2. What is the importance of header files.
3. What is the use of inline function in C++?
4. What are the applications of void data type in C++?
5. The size of a char array that is declared to store a string should be one larger than the number of characters in the string. Why?
6. Write a function using reference variables as arguments to swap the values of a pair of integers.
7. Explain an array. How will you define arrays of different types. Give examples.
8. Explain any two header files in C++.
9. What is the main advantage of passing arguments by reference?
10. What do you mean by overloading of a function? When do we use this concept?

II. Write short notes/answers on ANY FIVE: (5x 2=10)

1. What is class? How does it accomplish data hiding?
2. How is a member function of a class defined?
3. What is a friend function? What are the merits and demerits of using friend function?
4. Explain Polymorphism in C++ with an example.
5. What is a constructor? How do you make a constructor function?
6. What are the different forms of inheritance? Give an example of each.
7. What is an abstract class?

III Write answers on ANY FIVE: (5 x 4=20)

1. Write a program in C++ to check whether the given number is odd or even.
2. Write a program in C++ to find the factorial of a given number.
3. What do you mean by call by value and call by reference. Give example.
4. Explain Switch 0 statement with example.
5. Explain Do While statement with example.
6. Write a program in C++ to find the sum of digits of a given number.
7. Write a program in C++ to find the number of even numbers between 1 and 15.

IV. **Write essay on any ONE** **(1 x 10=10)**

1. Write a program in C++ to read register number and marks in 5 subjects and print the result based on the calculations given below-:

   if percentage>=80 result is Distinction.

   If percentage<80 and >=60 result is First Class

   if percentage>=60 and <50 result is second class otherwise Failed

2. Write a program in C++ to read n numbers into an array and sort the numbers in ascending order.

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