KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Engg.) 2017 Admission
III Semester Final Examination-January 2019

Basc.2107   **Computer Programming (1+1)**

Marks: 50
Time: 2 hours

I   **Define the Following**   (10x1=10)
1   Class.
2   Null pointer.
3   Access specifiers?
4   *This* pointer.
5   Different types of statements in C++.
6   Reference variable in C++?
7   Constructor.
8   Virtual function.
9   Predict output of the following program

```
#include<iostream.h>
#include<stdlib.h>
void main()
{
        exit(0);
        cout<<"Hello World!!!!";

}
```

10   Predict output of the following program
```
void main()
{

int temp=5;
cout<<++temp;
cout<<temp;
```

a   6 6   b   5 5   c   6 5   d   5 6

II   **Write Short notes on any FIVE of the following**   (5x2=10)
1   Differentiate between & and &&.
2   Differentiate between identifiers and keywords.
3   Advantages of inheritance.
4   Difference between template class and class template.
5   Write syntax of friend function declaration.
6   Predict the output of the code
```
char array[]={H,E,L,L,O};
char *a=array;
cout<<a;
```

7   Advantages of operator overloading.

P.T.O

III   **Answer any FIVE of the following.**   **(5x4=20)**

1   Write a C++ program to print sum of three numbers using function.
2   How multiple constructors can be used in a class?
3   Illustrate the use of get() and put() functions with syntax.
4   Explain polymorphism with example.
5   Write a program to print sum of even valued terms in a Fibonacci series up to 4000.
    (Fibonacci series is generated by adding the previous two terms. By starting with 0 and 1,
    the first 10 terms will be:0, 1, 1, 2, 3, 5, 8, 13, 21, 34, …)
6   What are function templates? Give example.
7   Discuss about different parameter passing mechanisms.

IV   **Answer any ONE of the following**   **(1x10=10)**

1   Define inheritance. Explain single level inheritance and multiple inheritance with suitable
    examples.
2   Write a C++ program to perform addition, subtraction and multiplication operations on
    two matrices using operator overloading.

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