



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

(5x2=10)

II Write Short notes on any FIVE of the following

- 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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