king Saud University

College of Computer and Information
Sciences

Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student Name: ……………………..   Student ID:

Question 1:   Multiple Choice(10 Marks)

1. Which of the following in correct regarding constructor?
[A] class name and constructor name is same
[B] constructor does not return value
[C] constructor has return type
[D] Both A and B are correct.
[E] All are correct.

2. Which of the following is not a return type?
A] void   [B] int   [C] double
[D] Both B and C are correct.
[E] None of the above

3. Which of the following are themselves a collection of different data types
[A] string
[B] structure
 [C] char
[D] All the above

4. What is the output of the following code?
```
#include <iostream>
#include <string>
using namespace std;
main() {
  int a[] = {10, 20, 30};

        cout<<a[0]+1;
}
```

 [A] 10 [B] 20   [C] 11   [D] 21

5. Which of the following correctly declares an array?
[A] int array[10];
[B] int array;
[C] array{10};
[D] array array[10];

6. Which is used to define the member of a class externally?
   [A] :   [B] ::   [C] #   [D] none of the mentioned

7.
```
#include <iostream>
using namespace std;
 int main () {
   // local variable declaration:
   int x = 1;

   switch(x) {
   case 1 :
     cout << "Hi" << endl;
     break;
   default :
     cout << "Hello" << endl;
   }
return 0;
}
```
[A] Hello [B] Hi [C] HelloHi [D] Compile error

8. Which of the following is a valid class declaration?
   [A] class A { public: int x; };
   [B] class B { }
   [C] public class A { }
   [D] object A { int x; };

9. What is the output of this program?
```
   #include
   using namespace std;
   int main()
   {
   int a;
   a = 5 + 3 * 5;
   cout << a;
   return 0;
   }
```
   [A] 35
   [B] 20
   [C] 25
   [D] 30

10. What is the index number of the last element of an array with 9 elements?
a) 9
b) 8
c) 0
d) Programmer-defined

king Saud University

College of Computer and Information Sciences

Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student Name: ....

Student ID:

Question 2:

Question: 2(a)   **(3 Marks)**

Give the output for the following questions

```cpp
#include <iostream>
#include <string>


using namespace std;
main() {
  int A =1;
int B =2;
if(((A==1) || (B==2)) && (B==0))
 cout<<"This exam was difficult ";
else
 cout<< "This exam was easy ";

}
```

Output	

Question: 2(b)   **(3 Marks)**

```cpp
#include <iostream>
#include <string>

using namespace std;

 int main() {
string a[] = { "Argentina", "Korea", "Greece", "Nigeria"};
cout << a[0+1] << endl;
cout << a[0] << endl;
cout << a[3] << endl;
return 0;
}
```

Output	

Question: 2(c)   **(4 Marks)**

What would be printed from the following C++ program?
```cpp
#include<iostream>
#include<conio.h>
using namespace std;
int main(){
  int arr[5]={1,3,5,7,9};
  for(int i=0;i<5;i++) //output arr array
     cout<<arr[i]*arr[i]<<"\t";
  return 0;
}
```

Output	

Question 3:   **(10 Marks)**

Create a class student with the following information below

studentid []: int of array size 5
studentname[]:string of array size 5

Empty Constructor
studentid=0;
studentname=" ";
Constructor with Parameter(int stdid[], string studname[])
Display method : print the values of studentid and student name.

Create a object and call the method display

king Saud University

 College of Computer and Information
Sciences
Computer science department

Student Name: ....

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student ID:

king Saud University

 College of Computer and Information
Sciences
Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student Name: ....

Student ID:

king Saud University

College of Computer and Information Sciences

Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student Name: ....

Student ID:

Question 4:   **(10 Marks)**

Write a c++ program to create an array numbers of size 5 with integer value
And create a method void input(), void output(), int max(), int min();
void input(): use input statement to input the values
void output(): use output statement to print the values
int max(): finds the maximum value and returns the maximum
int min(): Finds the minimum value and returns the minimum.

Sample Output:
Enter the value of input : 45
Enter the value of input : 56
Enter the value of input : 68
Enter the value of input : 9
Enter the value of input : 23
The entered values is : 45
The entered values is : 56
The entered values is : 68
The entered values is : 9
The entered values is : 23

The Maximum value is 68

The minimum value is 9

Note: No class and arrays should be declared globally

king Saud University

 College of Computer and Information
Sciences
Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student Name: ....

Student ID:

]

king Saud University

 College of Computer and Information
Sciences
Computer science department

Final Exam Spring 2018

CSC 201-Programming in C++

40 Marks

Student ID: