CSC 201-PROGRAMMING IN C++
COMPUTER SCIENCE DEPATMENT
COLLEGE OF COMPUTER AND INFORMATION SCIENCE

FINAL EXAM
DURATION: 2 HOURS
40 MARKS

STUDENT ID:	STUDENT NAME:

Questions	Marks	Students scored
Question 1	(10 Marks)	
Question 2	(10 Marks)	
Question 3	(10 Marks)	
Question 4	(10 Marks)	
	(
Total	(40 Marks)	

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Question 1: (5 Marks)Put your answers of question 1 (<u>multiple choice questions</u>) in the following table:

Question	Answer
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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STUDENT NAME:.....

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Question 1: Multiple Choice(10 Marks)
                                                      7. #include <iostream>
1. Which of the following in correct regarding
                                                      using namespace std;
constructor?
                                                      int variable()
[A] class name and constructor name is same
[B] constructor does not return value
                                                      int x=2;
[C] constructor has return type
                                                      return x;
[D] Both A and B are correct.
[E] All are correct.
                                                      int main()
2. Which of the following is a return type?
                                                      switch(variable())
A] void
              [B] int
                             [C] double
[D] All of the above E] None of the above
                                                      case 1:
                                                         cout << "Hi" << endl;
3. What will be used when terminating a
                                                         break;
structure?
                                                       default:
                                                         cout << "Hello" << endl;</pre>
A]: [B]
                 [C];
                               [D] ;;
                                                        }return 0;
4. What is the output of the following code?
                                                      [A] Hello [B] Hi [C] HelloHi [D] Compile error
#include <iostream>
#include <string>
                                                      8. Which of the following is a valid class declaration?
using namespace std;
main() {
                                                         [A] class A { public: int x; };
 int a[] = \{10, 20, 30\};
                                                         [B] class B { }
                                                         [C] public class A { }
                                                         [D] object A { int x; };
        cout << a[2]+1;
}
                                                      9. What is the output of this program?
[A] 10 [B] 20 [C] 31
                           [D] 21
                                                         #include
                                                         using namespace std;
5. Which of the following correctly declares an
                                                         int main()
array?
[i] int array[]=\{12,14,15,16\};
                                                         int a:
[ii] int array[4]={12,14,15,16};
                                                         a = 5 + 3 * 5;
[iii] array={12,14,15,16};
                                                         cout << a:
[iv] array[]= (12,14,15,16);
                                                         return 0;
               [B] ii and iii [C] i and ii [D] iv
                                                         [A] 35 [B] 20 [C] 25 [D] 30
[A] i and iii
     #include<iostream>
                                                      10. What is the index number of the last element of an
  using namespace std;
                                                      array with 9 elements?
  int main ()
                                                      [A] 9 [B] 8 [C] 0 [D] Programmer-defined
     int array[] = \{0, 2, 4, 6, 7, 5, 3\};
    int n, result = 0;
     for (n = 0; n < 6; n++)
       result += array[n+1];
     cout << result:
     return 0;
```

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[A] 27
       [B] 25 [C] 28
                               [D] 17
                                                     Question: 2(c)
                                                                                         (4 Marks)
Question 2:
                                                     What would be printed from the following C++
                                                     program?
   Question: 2(a)
                                   (3 Marks)
                                                     #include<iostream>
                                                     using namespace std;
Give the output for the following questions when
                                                     int main(){
the value of n is 15
                                                      int arr[5]={1,3,5,7,9};
                                                      for(int i=0;i<5;i++) //output arr array
#include <iostream>
                                                         cout<<arr[i]*arr[i]<<''\t'';
using namespace std;
                                                      return 0;
int main()
  int n, sum = 0;
  cout << "Enter a positive integer: ";</pre>
                                                      Output
                                                                1
                                                                   9 25 49
                                                                                  81
  cin >> n;
  for (int i = 1; i \le n; ++i) {
    sum += i;
  cout << "Sum = " << sum;
                                                     Question 3:
  return 0;
 Output
           120
                                                     Question: 3(a)
                                                                                         (2 Marks)
Question: 2(b)
                                (3 Marks)
                                                     Create an integer array "Nums" of size 5.
#include <iostream>
                                                     int Nums[5];
#include <string>
using namespace std;
int main() {
int a[] = \{ 2001, 2005, 3050, 1000 \};
cout << a[0+1] << endl;
cout \ll a[0] \ll endl;
                                                     Question: 3(b)
                                                                                         (3 Marks)
cout \ll a[3] \ll endl;
return 0;
}
                                                     Put the values 5, 1, 3, 7, 9 in the array "Nums".
                                                     Nums[0]=5;
 Output
           2005
           2001
           1000
```

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```
Employee:: Employee(int studentid[], string
Question: 3(c)
                               (5 Marks)
                                                    studentname[])
Find the sum of all the numbers in "Nums" using a for
                                                      for(int i=0; i<5; i++)
loop. The loop should print 25.
Int s=0;
                                                    Studentid[i]=studentid[i];
for(int i=0; i<5; i++){
                                                    Studentname[i]=studentname[i];
   if (i<4)
   s+=nums[i];
                                                    }
else
s+=nums[i];
cout<<s;
                                                    void Employee::display()
}
                                                     for(int i=0; i<5; i++)
                                                     cout<<"The student id is "<<Studentid[i]<<endl;</pre>
                                                    cout<<"The student name is"<<Studentname[i]<<endl;</pre>
Ouestion 4:
                        (10 Marks)
                                                    }
                                                     }
#include <iostream>
using namespace std;
                                                    int main()
class Employee
                                                    int studentid[]={1234,2345,4567,6789,1256};
private:
                                                    string studentname[]={"Mohammed",
  int Studentid[5];
                                                    "ahmed","Sohail","Abubakker","Omer"};
  string Studentname[5];
                                                    Employee emp,emp1(studentid,studentname);
public:
                                                    emp1.display();
  Employee();
  Employee(int studentid[], string
studentname[]);
  void display();
                                                    From the above program answer the following
                                                    questions
};
Employee::Employee()
                                                    1. What is the class name of the above program?
for(int i=0; i<5; i++)
                                                                                           (1 marks)
                                                            Employee_____
Studentid[i]=0;
Studentname[i]="";
```

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STUDENT ID:..... STUDENT NAME:..... The student id is 1234 } The student name is Mohammed 2. what are the attributes in the above program? _____ Studentid _____(0.5 Marks) The student id is 1256 The student name is Omer ______ Studentname ______(0.5 Marks) 2. How many constructors are there? 3. what is the size of the array? 5 (1 Marks) 4. what is the method name? __display______(1 Marks) 5. what is the objects name? _____ emp,emp1______(1 Marks) 6. what is the output for the above program? (4 Marks)

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