

Student Name:

Student ID:

**Question 1: Multiple Choice(10 Marks)**

1. Which of the following is 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 return type?

- [A] void
- [B] int
- [C] double
- [D] Both B and C are correct.
- [E] A, B and C are correct.

3. Which of the following is a properly defined structure?

- [A] struct {int a;}
- [B] struct a\_struct {int a;}
- [C] struct a\_struct int a;
- [D] struct a\_struct {int a;};

4. What is the output of the following code?

```
#include <iostream>
using namespace std;
int main()
{
    int num[]={12,23,45,56,78};
    cout<<num[3]+num[4];
    return 0;
}
```

- [A] 35
- [B] 134
- [C] 68
- [D] 101

5. Which of the following correctly declares an array?

- [A] int array[10];
- [B] int array;
- [C] array{10};
- [D] array array[10];

6. What does your class can hold?

- [A] data
- [B] functions
- [C] both a & b
- [D] none of the mentioned

7. Which is used to define the member of a class externally?

- [A] :
- [B] ::
- [C] #
- [D] none of the mentioned

8. Which of the following is a valid class declaration?

- [A] class A { 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

**Question :2 (10 Marks)**

Question: 2(a) (2 Marks)

Create an integer array "Nums" of size 5.

```
int Nums[5];
```

Question: 2(b) (3 Marks)

Put the values 5, 1, 3, 7, 9 in the array "Nums".

```
int Nums[5] = {5, 1, 3, 7, 9};
```

Question: 2(c) (5 Marks)

Find the sum of all the numbers in "Nums" using a for loop. The loop should print 25.

Student Name:

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**Question 3:**

(5 Marks)

Write the c++ program to input a four input using arrays and check if the value of each input is greater than 60. If it is greater than passed else failed?

Output :

45 60 100 55

The student in position 0 is failed  
The student in position 1 is passed  
The student in position 2 is Passed  
The student in position 3 is failed

**Question 4:**

(10 Marks)

Write a c++ program to create a class Student with student id, studentname, grade as attributes and create constructor, constructor with parameters and display method.

**Question 5:**

(5 Marks)

Write two function one input and other output In c++ programming taking studentid and studentname

void input();  
void output();

Output:

Enter the studentid: 123  
Enter the studentname: Mohammed  
The student id is : 123  
The student name is Mohammed

```
Q2] (c)
#include <iostream>
using namespace std;
int main ( )
{
    int Nums[5] = {5, 1, 3, 7, 9};
    int i, sum = 0;
    for (i = 0; i < 5; i++)
        sum = sum + Nums[i];
    cout << sum;
    return 0;
}
```

```
Q3] #include <iostream>
using namespace std;
int main ( )
{
    int grade [4];
    for (int i = 0; i < 4; i++)
    {
        cout << "Enter the grade of student in position" << i << " : ";
        cin >> grade[i];
    }
    cout << endl;
    for (int i = 0; i < 4; i++)
    {
        if (grade[i] >= 60)
            cout << "The student in position" << i << " is passed." << endl;
        else
            cout << "The student in position" << i << " is failed." << endl;
    }
    return 0;
}
```

Q4

```
#include <iostream>
using namespace std;

class student
{
private:
    int id;
    char name[20];
    char grade;

public:
    int get_id();
    void get_name();
    void get_grade();
    void output();
};
```

```
int student::get_id()
{
    cout << "Enter the id of student:";
    cin >> id;
    return id;
}
```

```
void student::get_name()
{
    cout << "Enter the name of student:";
    cin >> name;
}
```

```
void student::get_grade()
{
    cout << "Enter the grade of student:";
    cin >> grade;
}
```

```
void student::output()
{
    cout << "Student details:" << endl;
    cout << "Id number" << id << ", name of student:" << name << ", grade:" << grade;
}
```

```
int main()
```

```
{
    student stud;
    int a;
    a = stud.get_id();
    stud.get_name();
    stud.get_grade();
    cout << endl;
    stud.output();

    return 0;
}
```

Q5

```
void input()
```

```
{
    int id;
    char name[20];
    cout << "Enter the student id" << endl;
    cin >> id;
    cout << "Enter the student name";
    cin >> name;
}
```

```
void output()
```

```
{
    cout << "The student id is:" << id << endl;
    cout << "The student name is:" << name;
}
```