

Student Name:

Student ID:

A. Multiple Choice(5 Marks)

1. Which of the following will return a value?

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

2. What is the output of the following Program?

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
    int x=5,y;

    y=sqrt(x);
    cout<<y;
}
```

- A) 2.5
- [B] 5
- [C] 2
- [D] No Answer

3. What are mandatory parts in function declaration?

- [A] return type,function name
- [B] return type,function name,parameters
- [C] both a and b
- [D] none of the mentioned

4. Where does the execution of the program starts?

- [A] user-defined function
- [B] main function
- [C] void function
- [D] none of the mentioned

5. What is the output of the following code?

```
#include <iostream>
main(){
char x='b';
switch(x)
{
case 'a':
```

```
cout<<"case a"<<endl;break;
case 'b':
    cout<<"case b"<<endl;break;
default:
    cout<<"wrong input"<<endl;
} return 0; }
```

- [A] case a
- [B] case b
- [C] case a case b
- [D] wrong input

B. True or False(5 Marks)

1. Functions cannot return more than one value at a time

- [A] True
- B. False

2. Function can be reused in the code?

- [A] True
- B. False

3. In C++, `x++` is equivalent to `x = x + 2;`

- A. True
- [B] False

4. Struct is the key word to declare the structure.

- [A] True
- B. False

5. Structures cannot be called in other structures

- A. True
- [B] False

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C. Questions

(Marks 10)

(5 Marks)

1. Write a Function in C++ to add, subtract, multiply and divide?

void add();
int subtract();
int multiply(int,int);
void divide(int,int);

```
#include <iostream>
using namespace std;
void add(int, int);
int subtract(int, int);
int multiply(int, int);
void divide(int, int);
int main ( )
{
    int a, b;
    cout << "Please, Enter the value of a: ";
    cin >> a;
    cout << "Please, enter the value of b: ";
    cin >> b;
    add(a, b);
    cout << "The subtract a-b is:" <<
        subtract(a,b) << endl;
    cout << "Their multiplication is" <<
        multiply(a,b) << endl;
    divide(a,b);
    return 0;
}
void add (int a, int b)
{
    cout << "Their sum is" << a+b << endl;
}
int subtract (int a, int b)
{
    return (a-b);
}
int multiply (int a, int b)
{
    return (a*b);
}
void divide (int a, int b)
{
    cout << "Their division is" << a/b << endl;
}
```

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(5 Marks)

2. Write a c++ program to create a StudentRecord using structure and give student id and grades. Create two object and give the two id and grades?

Output:

The Student name is Mohammed
The grade is 2000
The Student name is Ahmed
The grade is 1100

```
#include <iostream>
using namespace std;
struct StudentRecord
{
    char name[10];
    int id;
    char grade;
};

StudentRecord Get_data(StudentRecord in_student)

int main ()
{
    StudentRecord student1;
    student1 = Get_data(student1);
    cout << student1.name << " " <<
    student1.id << " " << student1.
    grade << endl;
    return 0;
}

StudentRecord Get_data(StudentRecord in_student)
{
    cout << "Enter Name: ";
    cin >> in_student.name;
    cout << "Enter ID: ";
    cin >> in_student.id;
    cout << "Enter Grade: ";
    cin >> in_student.grade;

    return (in_student);
}
```