

Answer Sheet (Ar Borhan)

Student Name:

Student ID:

A. Multiple Choice(5 Marks)

1. #include <iostream>
using namespace std;

```
int main()
{
    int i,j=5;
    i=j++;
    cout<<i;
}
```

- [A] 6
- [B] 5
- [C] 4
- [D] 7

Answer: 5

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

Answer: 2

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

Answer: A

4. Where does the execution of the program starts?

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

Answer: B

5. What is the output of the following code?

```
// Example program
#include <iostream>
using namespace std;
```

```
int main()
{
    int i,j=5;
    i=j++;
    cout<<j<<" "<<i;
}
```

- [A] 5 5
- [B] 5 6
- [C] 6 5
- [D] 6 6

Answer: 6 5

B. Answer the following Question (6 Marks)

Each Question carry's 2 Marks

1. Find any errors in the following function definition:

```
void myfunction(int x,int y)
{
    cout<<x*y;
    return(x*y);
}
```

Answer: void by int

2. Find any errors in the following function definition:

```
int myfunction(int x,y)
{
    return(x*y);
}
```

Answer: int y

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3. Find the error if any and give the line no and the correct answer.

1. #include <iostream>
2. using namespace std;
3. struct student
4. {
5. int studentid;
6. string studentname;
7. };
8. int main()
9. {
10. student stud;
11. cout<<"Enter student id :";
12. cin>>studentid;
13. cout<<"Enter student name :";
14. cin>>studentname;
15. cout<<"The student id is
 "<<stud.studentid<<"The student name
 is "<<stud.studentname;
- 16 }

Answer: replace 12 / cin >> stud.studentid;
 14 / cin >> stud.studentname;

C. Questions

(4 Marks)

1. Write a function read_integer of return type integer asking the user to input an integer and return the integer. Then, write a program that reads two integer using the function read_integer and prints them.

Sample output:

Enter the interger value: 45
 Enter the interger value: 25
 The integer value is number1 is 45
 The integer value of number 2 is 25

```
#include <iostream>
using namespace std;
int read_integer (int);
void print_integer (int,int);

int main ( )
{
    int a, b, z, w;
    z = read_integer(a);
    w = read_integer(b);
    print_integer(z,w);
    return 0;
}

int read_integer (int)
{
    int a;
    cout << "Enter the integer value :";
    cin >> a;
    return a;
}

void print_integer (inta, intb)
{
    cout << "The integer value of number 1 is  

    << a << endl;
    cout << "The integer value of number 2 is!"  

    << b << endl;
}
```

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(Marks 5)

2. Define the structure struct Point which contains two double variables, one for the x coordinate and one for the y. Write the following functions.
Read_point(): This function reads the two coordinates from the user and return an object.
Print_point(): This function prints the two coordinates to the screen.
Using these functions, write a program that reads the coordinates of the point and then prints the coordinates of that point.
Enter x= 1.5
Enter y = 3
(x, y) = (1.5, 3)

```
#include <iostream>
using namespace std;
struct Point
{
    double x;
    double y;
};
```

```
Point Read-point ( )
{
    Point p;
    cout << "Enter x : ";
    cin >> p.x;
    cout << "Enter y : ";
    cin >> p.y;
    return p;
}
```

```
Point Print-point ( )
{
    Point p;
    cout << "x = " << p.x << endl;
    cout << "y = " << p.y << endl;
    return p;
}
```

```
int main ( )
{
    Point p;
    p = Read-point ( );
    p = Print-point ( );
    return 0;
}
```

cout << "(x,y) = (" << p.x << ", " << p.y << ")" << endl;