

Part A. Multiple Choice (5 marks)

```
1) #include <iostream>
using namespace std;
int main() {
int i,j=5;
i=j++ + 3;
cout<<i;
}
```

- a) 6
- b) 5
- c) 8**
- d) 7

Answer: _____

2) What is the output of the following program?

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

- a) 2.5
- b) 5**
- c) 2
- d) No Answer

Answer: _____

3) What will be return type of a function when no value will be returned from a function?

- a) int
- b) float
- c) boolean
- d) none of the above**

Answer: _____

4) To start program in C++ program it must have:

- a) user-defined function
- b) void function
- c) main function**
- d) built in function

Answer: _____

5) What is the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
int i, j=5;
i= ++j * 2;
cout<<j<<" "<<i;
}
```

- a) 5 5
- b) 5 6
- c) 6 5
- d) 6 12**

Answer: _____

Part B. True or False(5 marks)

1) Functions can return more than one value at a time.

- a) True
- b) False**

Answer: _____

2) Main advantage of functions in C++ is that they can be reused.

- a) True**
- b) False

Answer: _____

3) In C++, ++x++ is same as x = x + 2;

- a) True
- b) False**

Answer: _____

4) Keyword to declare the structure is

structure.

- a) True
- b) False**

Answer: _____

5) Nested structures are not allowed in C++

- a) True
- b) False**

Answer: _____

2) Write lines of code in C++ to create a **Library** using structure which has three members; **bookName** and **author** and **price**. Create two structures **book1** and **book2**. Give them following values. (5 marks)

Book1:

Book Name: Math

Author: Ali

Price: 55.00

Book2:

Book Name: Science

Author: Ahmed

Price: 85.00

Then write lines of codes to print the information.

Output:

Book Name: Math

Book Author: Ali

Book Price: 55.00

Book Name: Science

Book Author: Ahmed

Book Price: 85.00

```
#include<iostream>
```

```
using namespace std;
```

```
struct Library
```

```
{
```

```
string Name;
```

```
string author;
```

```
double price;
```

```
};
```

```
Library get_data()
```

```
{
```

```
Library book;
```

```
cout<<"Book Name:";
```

```
cin>>book.Name;
```

```
cout<<"\nAuthor:";
```

```
cin>>book.author;
```

```
cout<<"\nPrice:";
```

```
cin>>book.price;
```

```
return book;
```

```
}
```

```
void print_data(Library book) // function for print of  
type void with argument an object
```

```
{
```

```
cout<<"Book Name:"<<book.Name;
```

```
cout<<"\n Author:"<<book.author;
```

```
cout<<"\n Price:" <<book.price;
```

```
}
```

```
int main()
```

```
{
```

```
Library book1,book2;
```

```
book1=get_data();
```

```
book2=get_data();
```

```
print_data(book1);
```

```
print_data(book2);
```

```
return 0;
```

```
}
```

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