King Saud University

College of Computer and Information Sciences Computer science department

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CCS115 and CSC201-Programming in C++, Midterm 2 Fall 2	018 20 Marks	(Time: 1hour)

	5) What is the output of the following code?
Part A. Multiple Choice (5 marks)	<pre>#include <iostream></iostream></pre>
1) #include <iostream></iostream>	using namespace std;
using namespace std;	<pre>int main() {</pre>
<pre>int main() {</pre>	int i, j=5;
int i,j=5;	i= ++j * 2;
i=j++ + 3;	cout< <j<<" "<<i;<="" td=""></j<<">
cout< <i;< td=""><td>}</td></i;<>	}
}	a) 55
a) 6	b) 56
b) 5	c) 65
c) 8	d) 6 12
d) 7	u) 012
<i>a)</i> /	Answer:
Answer:	mswer
1 Mis (1011	Part B. True or False(5 marks)
2) What is the output of the following program?	Ture D. True or ruise(e marks)
#include <iostream></iostream>	1) Functions can return more than one value at a
#include <cmath></cmath>	time.
using namespace std;	a) True
<pre>int main() {</pre>	b) False
int x=5,y;	
y=abs(x);	Answer:
cout< <y;< td=""><td></td></y;<>	
}	2) Main advantage of functions in C++ is that they
	can be reused.
a) 2.5	a) True
b) 5	b) False
c) 2	Answer:
d) No Answer	
Amorroan	3) In C++, ++x++ is same as $x = x + 2$;
Answer:	a) True
3) What will be return type of a function when no	b) False
* * * * * * * * * * * * * * * * * * *	Answer:
value will be returned from a function?	
a) int	4) Keyword to declare the structure is
b) float	structure.
c) boolean	a) True
d) none of the above	b) False
•	o) Taibe
Answer:	Answer:
1) To start musquam in City and are it would be	·
4) To start program in C++ program it must have:	5) Nested structures are not allowed in C++
a) user-defined function	a) True
b) void function	b) False
c) main function	-,
d) built in function	Answer:
	- · ·
Answer:	

Part C. (10 marks)	
1) Write a C++ function to calculate the circumference of a circle. Then use that function in	
main. Circumference of a circle is calculated as: $2\pi r$ //r is radius. (
#include <iostream></iostream>	
using namespace std; double circumference(double a)	
{ 	
return 2*3.14*a;	
} ;	
int main()	
{	
double r;	
<pre>cout<<"Enter radius r =";</pre>	
cin>>r;	
cout<<''\n The circumference of your circle is	
:''< <circumference (r);<="" th=""><th></th></circumference>	
return 0;	
}	

```
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
                                                    cin>>book.price;
Book2:
Book Name: Science
                                                    return book;
Author: Ahmed
Price: 85.00
Then write lines of codes to print the information.
                                                    void print_data(Library book) // function for print of
                                                    type void with argument an object
Output:
Book Name: Math
Book Author: Ali
Book Price: 55.00
                                                     cout<<"Book Name:"<<book.Name;
Book Name: Science
                                                     cout<<"\n Author:"<<book.author;</pre>
Book Author: Ahmed
Book Price: 85.00
                                                     cout<<"\n Price:" <<book.price;</pre>
#include<iostream>
using namespace std;
                                                    int main()
struct Library
{
                                                    Library book1,book2;
string Name;
                                                    book1=get_data();
string author;
                                                    book2=get_data();
double price;
                                                    print_data(book1);
};
                                                    print_data(book2);
Library get_data()
                                                    return 0;
{
                                                    }
Library book;
cout<<"Book Name:";</pre>
cin>>book.Name;
cout<<"\nAuthor:";
cin>>book.author;
cout<<"\nPrice:";
```