Question 1 1	/ 1 point
A function is automatically called when an object is first created memory.	d in
destructor	
✓ constructor	
modifier	
accessor	
Question 2 0	/ 1 point
It is possible for a class to have multiple constructor functions as long has a unique parameter list.	g as each
→ True	
★ False	
Question 3	/ 1 point
In C++, the class definition is typically stored in a header file with ext	ension
.срр	
✓◯ .h	
header	
txt	

Question 4 1 / 1 point

The **Temperature** class definition is listed below. In the **main** function, which code is invalid?

```
class Temperature {
private:
 double temp;
                      // Fahrenheit temperature
public:
 Temperature() { temp = 0.0; }
 double getTemp() { return temp; }
 void setTemp (double t) { temp = t; }
};
      Temperature winter;
      cout << winter.temp;</pre>
      Temperature winter;
      cout << winter.getTemp();</pre>
      Temperature winter;
      winter.setTemp(32.0);
      All of the examples are legal
```

Question 5 1 / 1 point

The **Temperature** class definition is listed below. Which statement is true about the code in the **main** function?

✓ The output is: It is cold
The output is: Unknown
The result is unpredictable since the private data stores an undefined value
An error occurs because the private data has not been initialized
Question 6 1 / 1 point
An application file (ex. Source.cpp) wishes to create objects of the user-defined Temperature class. Which line should be added to the top of the application?
#include <temperature.h></temperature.h>
#include "Temperature.h"
#include "Temperature"
#pragma once
Question 7 1 / 1 point
In a C++ struct data members are automatically while in a C++ class data members are typically
public, public
private, public
✓ public, private

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	private,	privato
	private,	private

Question 8 1 / 1 point

In object-oriented programming, an class should protect an object's data by making its visibility private and by providing public methods to edit the data in controlled ways.

~	True
	False

Question 9 1 / 1 point

Using class Temperature, what is the result of the code in the main function?

```
class Temperature {
private:
 double temp;
                          // Fahreinheit temperature
public:
 Temperature();
                         // POST: temp is set to 0
 Temperature (double t); // POST: temp is set to t
 double getTemp();
                        // POST: return temp
 void setTemp (double t); // POST: temp is set to t
};
// in main function
Temperature spring(50.0);
cout << spring.getTemp();</pre>
      0.0 displays
```

✓ 50.0 displays

an undefined value displays

an error occurs as the main function cannot access private data

Question 10	1 / 1 point
Accessor methods in a class often use a name beginning with	
set	
the class name	
✓ get	
public	
Question 11	1 / 1 point
The following two methods would be considered overloaded metho they both return double values and have a single parameter of type	
<pre>public double mysteryOne (double m) { }</pre>	
public double mysteryTwo (double m) { }	
True	
✓ False	
Question 12	0 / 1 point
A Circle class uses a private data member named radius to store a radius. The function heading for the accessor method looks as follows. the meaning of const ?	
double getRadius () const { return radius: }	
The value returned by this function must always be stored in a constant.	named
A Circle object is never allowed to alter the radius data members via the public modifier function.	er, even
This function is guaranteed not to alter an object's private rad	ius data.

This function can only be called on a constant Circle object, one that is declared and initialized in user code but cannot be subsequently modified.	;
Question 13 0 / 1 po	int
Which statement is not true about objects of the C++ string class?	
A C++ string object can be constructed from either another C++ string or a C string	,
C++ strings objects permit access to individual characters via the subscript operator []	
Use of the relational operators is permitted when comparing two C++ strings $s1$ and $s2$, as in: if $(s1 == s2)$ cout << "same contents";	
→ All statements a), b) and c) are true about C++ strings	
Question 14 1 po	int
A class Temperature is created with a private data member named temp . Which declaration in the main function calls the default constructor?	
Temperature weekday { temp };	
Temperature today ();	
✓ Temperature daily;	
Temperature monday = 0;	
Question 15 1 / 1 po	int
What is the output of the code?	
string s = "Programming"; cout << s.substr(1,3);	
○ ro	
rg	
✓ rog	

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Pro

Question 16 1 / 1 point

When working with input files, use the ____ preprocessor directive at the top of the program.

- #include <iostream>
- #include <string>
- #include <file>
- ✓ #include <fstream>

Question 17 1 point

The data file contains: 10 20 30 What is the output of the code? Assume the file opened correctly.

```
ifstream fin;
fin.open ("data.txt");
int num;
int sum = 0;
fin >> num;
while (! fin.fail( ))
{     cout << num << " ";
     sum = sum + num;
     fin >> num;
}
cout << sum;</pre>
```

- 10 20 30 30 90
- 30 30 30 120

10 20 30 6010 10 20 30 30 60

Question 18 1 / 1 point

An attempt to read the end-of-file marker at the end of a data file will cause the file stream to go into fail state

✓ True

False

Question 19 1 / 1 point

Which code segment correctly establishes an input string stream from the contents of string <u>line</u> and reads the integer and double values?

string line = "55 7.99";

- istringstream is (line);
 int k;
 double d;
 line >> k >> d;
- istringstream is (line); int k; double d; is >> k >> d;
 - istringstream is (line); int k; double d; getline(is, k); getline(is, d);
 - istringstream is (cin); int k; double d; cin >> k >> d;

Question 20 1 / 1 point

	_ function to convert a string of digits (ex. "1234") to an integer n an int variable.
_ to_stri	ng
stod	
✓ stoi	
int	

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