



## Review Test Submission: Quiz 2

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Course	Computer System Design and Applications A (Spring 2021)
Test	Quiz 2
Started	5/11/21 3:24 PM
Submitted	5/11/21 3:49 PM
Status	Completed
Attempt Score	20 out of 30 points
Time Elapsed	25 minutes out of 45 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

### Question 1

1 out of 1 points

Each java thread must have it's own independent \_\_\_\_\_ to to run.

Selected Answer: ☒ Call stack

Answers: ☐ main() method

☒ Call stack

☐ JVM

☐ Memory

### Question 2

0 out of 1 points

Which of the following are charting errors we should avoid?

Selected Answers: ☒ Using chart junk

☒ Having no relative basis to compare the data series in the chart

Answers: ☒ Using chart junk

☒ Having no relative basis to compare the data series in the chart

☒ Using several different charts to show related batches of information

☒ Compressing the vertical axis

☒ Having no zero on the vertical axis

☐ Putting a title

### Question 3

1 out of 1 points

How does JavaFX let you use CSS to define flexible user interface appearances?

Selected ☒ It provides a subset of the features of CSS

Answer:

Answers: It provides the full standard for CSS (everything can do with CSS in webpages can do in JavaFX)

✔ It provides a subset of the features of CSS

JavaFX uses themes not CSS

#### Question 4

1 out of 1 points

Which of the following are necessary to create a TCP connection socket to a server from a client eg to get a webpage

Selected Answers: ✔ IP address of the remote computer  
✔ Port number of the remote computer  
✔ IP of the client  
✔ The local port (client)

Answers: ✔ IP address of the remote computer  
✔ Port number of the remote computer  
✔ IP of the client  
✔ The local port (client)

#### Question 5

1 out of 1 points

Which of the following are actual constructors for the Thread class?

Selected Answers: ✔ Thread(Runnable r, String name)  
✔ Thread()

Answers: ✔ Thread(Runnable r, String name)  
✔ Thread()  
Thread(int priority)  
Thread(Runnable r, int priority)

#### Question 6

1 out of 1 points

What is wrong with this code fragment?

```
...  
int[] a;  
for (int i = 0; i < 10; i++)  
    a[i] = i * i;  
...
```

Selected ✔

Answers: It should allocate memory for a[] using new and will give a compile time error saying the variable might not have been initialized

Answers: It doesn't have a try catch block  
The indexes in the loop will not allow it to multiply all the elements


✔


It should allocate memory for a[] using new and will give a compile time error saying the variable might not have been initialized  
Cannot use \* operator on array elements

### Question 7


1 out of 1 points

```
Button btn = new [A];  
btn.setText("Say 'Hi'");  
btn.setOnAction(e [B] System.out.println("Hi!") );
```

Specified Answer for: A  Button()

Specified Answer for: B  ->

#### Correct Answers for: A

Evaluation Method	Correct Answer	Case Sensitivity
 Exact Match	Button()	





#### Correct Answers for: B


Evaluation Method	Correct Answer	Case Sensitivity
 Exact Match	->	

### Question 8

0 out of 1 points

Which of these is the protocol for sending messages from one computer to another computer?


Selected Answers:  FTP  
 TCP  
 IP  
 HTTP




Answers: FTP  
 TCP  
IP  
HTTP

### Question 9

0 out of 1 points

Which of the following could be used to define the way data is exchanged between a client and server (e.g. a server sends back some data listing a result of a query sent to it by the client)


Selected Answers:  JSON

Answers:  JSON  
 XML  
 CSV  
None of the above


### Question 10

0 out of 1 points

Serialization handles object references by:

Selected Answer:  It obtains the references and locates the original data to save runtime

Answers: Storing objects in the same place in memory when objects are reloaded

 It saves the data in objects but not the locations in memory

It obtains the references and locates the original data to save runtime


Using deep copy

## Question 11

1 out of 1 points

What is the result of this program?

```
public class Test {  
  
    private static void test(int[] arr) {  
        for (int i = 0; i < arr.length; i++) {  
            try {  
                if (arr[i] % 2 == 0) {  
                    throw new NullPointerException();  
                } else {  
                    System.out.print(i); }  
            } finally {  
                System.out.print("e"); }  
            }  
        }  
  
        public static void main(String[] args) {  
            try {  
                test(new int[] {0, 1, 2, 3, 4, 5});  
            } catch (Exception e) {  
                System.out.print("E");  
            }  
        }  
    }  
}
```

Selected Answer:  eE

Answers: Compilation error

 eE

eE1eE3eE5

Ee1Ee3Ee5

## Question 12

0 out of 1 points


What is the result of the program shown?

```

public class Test implements Runnable
{
    public void run()
    {
        System.out.println("r1 ");
        System.out.println("r2 ");
    }

    public static void main( String[] args )
    {
        Thread t = new Thread(new Test());
        t.start();
        System.out.println("m1 ");
        t.join(); join 产生 InterruptedException, 需要 try catch 包围
        System.out.println("m2 ");
    }
}

```

Selected Answer:  m1 r1 r2 m2

Answers:  Compilation error

m1 m2 r1 r2

r1 r2 m1 m2


m1 r1 r2 m2

### Question 13

1 out of 1 points

Which of the following can obtain the location of file Reflection.class

Public class Reflection { .. }

Selected Answer:  Reflection.class.getClassLoader().getResource("Reflection.class")

Answers:  Reflection.getClass().getClassLoader().getResource("Reflection.class")

Reflection.getClass().getResource("Reflection.class")

Reflection.class.getClassLoader("Reflection.class")

Reflection.class.getClassLoader().getResource("Reflection.class")



### Question 14

1 out of 1 points

What does this program print?

```
int[] a = { 1, 2, 3 };  
int[] b = { 1, 2, 3 };  
System.out.println(a == b);
```

Selected Answer: ☒ False

Answers:

- True
- Incompatible types error
- Cannot instantiate array with { }
- ☒ False

### Question 15

1 out of 1 points

What is the result of this program?

```
public class ZeroDiv{  
  
    public static void main(String args[]){  
        int x = 0, y = 10;  
        try {  
            y /= x; }  
            System.out.print("/ by 0"); catch(Exception e) {  
                System.out.print("error");  
            }  
        }  
    }  
}
```

Selected Answer: ☒ Compilation failure

Answers:

- 0
- Error
- ☒ Compilation failure
- Nothing (no output)

### Question 16

1 out of 1 points

What is a stage in JavaFX?

Selected Answer: ☒ A top level container

Answers:

- The platform on which it runs
- ☒ A top level container
- A step in the JavaFX application

### Question 17

0 out of 1 points

Which of the following statements about Java's exception handling mechanism are true?

Selected



Answer:

No matter if there is an exception or not, the code in the "finally" block will be executed

Answers:

"throw" can be used to declare an exception in a method, and the exception will be thrown in this method

"throws" is used to throw the exception objects

You cannot throw an exception in a "try" block



No matter if there is an exception or not, the code in the "finally" block will be executed

### Question 18

0 out of 1 points

In a busy system it is desirable to set the priority for threads that are doing important tasks to be higher so that they will get done first.

Selected Answer:  True

Answers:


True

 False

### Question 19

1 out of 1 points

The time it takes to send a message from one computer to another is called?

Selected Answer:  Delay

Answers:

 Delay

Routing

Bandwidth

Latency

### Question 20

0 out of 1 points

What is the Data Ink ratio?

Selected



Answers:

Proportion of a charts information that is used for displaying the data information



1 - minus the proportion of the graphic that can be removed without losing the information contained in the chart

Answers:

Data pixels / Total Pixels in the graphic



Data pixels / total number of pixels used in displaying the chart (but not background pixels)



Proportion of a charts information that is used for displaying the data information



1 - minus the proportion of the graphic that can be removed without losing the information contained in the chart

### Question 21

1 out of 1 points

Which method should you put the body (main tasks) of the thread?

Selected Answer: run()

Answers: run()

stop()

start()

main()

### Question 22

1 out of 1 points

What will be the contents of b after running this program?

```
public class ArrayTest {
    public static void main(String[] args) {
        int [] b = {1,2,3,4,5,6,7,8,9};
        int n = b.length;

        for (int i = 0; i < n/2; i++) {
            int temp = b[i];
            b[i] = b[n-i-1];
            b[n-i-1] = temp;
        }
    }
}
```

Selected Answer: 9 8 7 6 5 4 3 2 1

Answers: 9 8 7 6 5 4 3 2 1

1 2 3 4 5 6 7 8 9

9 8 7 6 5 9 8 7 6

4 3 2 1 0 4 3 2 1

### Question 23

1 out of 1 points

What is inheritance in OOP?

Selected Answer: The process where an object obtains the properties of another

Answer:

Answers:



☒ The process where an object obtains the properties of another

The ability of objects to take many different forms (e.g. a number could be an Integer or a Double but we can still use arithmetic operators)

The ability to define different methods of the same type

None of the above

### Question 24

1 out of 1 points

Why does Java have JDBC?

Selected Answer: ☒ All of these

Answers:

- Create database connections
- Send SQL statements to query a database
- Handle and process the results of queries
- ☒ All of these

### Question 25

1 out of 1 points

Suppose we define a class Car and then we define the following classes that extend Car: BYD, Tesla, Toyota. Which of the following make sense?

Selected Answer: ☒ Car [] cars = {new Toyota(), new Tesla(), new BYD()}

Answers:

- Toyota[] toyotas = {new Car(), new Toyota()}
- ☒ Car [] cars = {new Toyota(), new Tesla(), new BYD()}
- Tesla [] teslas = {new Car(), new Car(), new Car()}

### Question 26

1 out of 1 points

What do we call the situation where 2 or more threads are blocking each other?

Selected Answer: ☒ Deadlock

Answers:

- Critical section
- ☒ Deadlock
- Mutual exclusion
- Synchronized

### Question 27

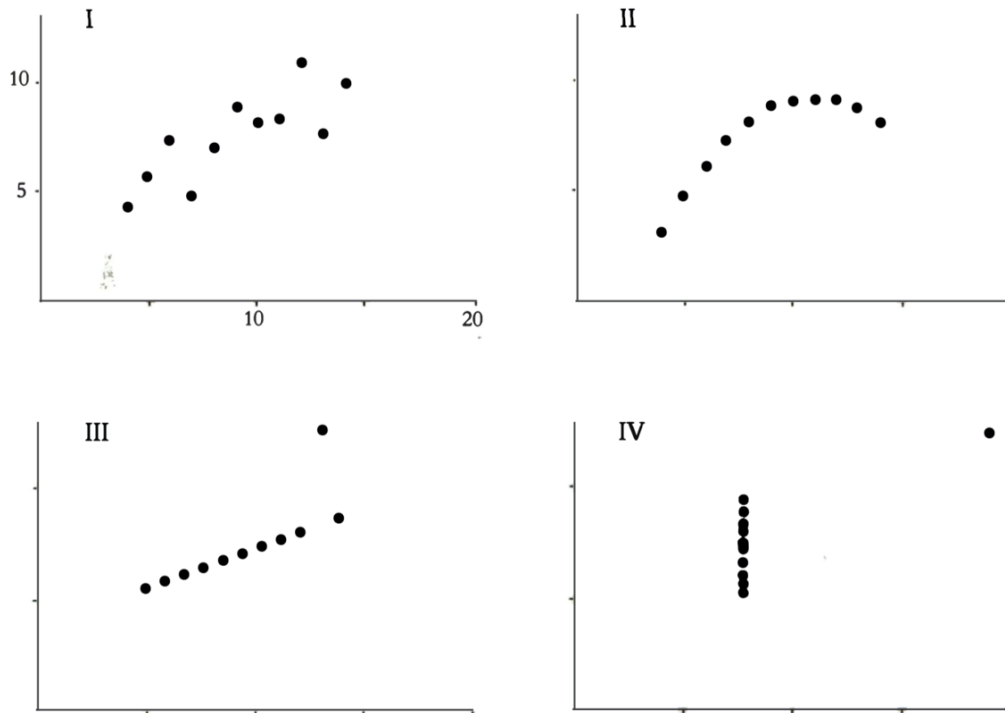
0 out of 1 points

We generate the following statistics for a pair of data series X and Y ( $X = \{x_1, \dots, x_{11}\}$ ,  $Y = \{y_1, \dots, y_{11}\}$ ) using a least square regression analysis

- Mean of X = 9
- Mean of Y = 7.5
- Equation of regression line:  $Y = 3 + 0.5X$
- Standard error of slope estimate = 0.118
- $t = 4.24$

- Regression sum of squared error = 27.5
- $R^2 = 0.67$

Which of the following X-Y plots is described by these statistics?



Selected Answers: ☒ I

☒ II

Answers:

☒ I

☒ II

☒ III

☒ IV

## Question 28

1 out of 1 points

Which of the following would be the best option to add a TableView to (in general assuming the table could grow)?

Selected Answer: ☒ ScrollPane

Answers: ☐ BorderPane

☐ TabPane

☒ ScrollPane

☐ StackPane

## Question 29

0 out of 1 points

Which of the following are needed to make an object serializable?

Selected Answers: ☒ Objects are serializations by default - just extend Object

☒ Implement Serializable interface

☒ Implement writeObject

Answers: ☐ Objects are serializations by default - just extend Object

✔ Implement Serializable interface  
Implement writeObject  
Implement ReadObject

### Question 30

1 out of 1 points

What is the output of the following code?

```
public class Test {  
  
    public static void main(String[] args) {  
        System.out.println("return value of getValue(): "  
                            + getValue());  
    }  
  
    public static int getValue() {  
        try {  
            return 0;  
        } finally {  
            return 1;  
        }  
    }  
}
```

Selected Answer: ✔ return value of getValue(): 1

Answers: return value of getValue(): 0

Runtime error

Compilation error

✔ return value of getValue(): 1

Tuesday, June 1, 2021 1:31:50 AM CST

← OK

