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**Started on** Monday, 10 October 2022, 7:04 PM

**State** Finished

**Completed on** Monday, 10 October 2022, 7:06 PM

**Time taken** 1 min 7 secs

**Grade** 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

Which of the following statements are true?

Select one or more:

- ☒ a. A socket is a kind of opening.
- ☒ b. A socket represents one endpoint of a network connection.
- ☒ c. A program uses a socket to communicate with another program over the network.
- ☒ d. Data written by a program to the socket at one end of the connection is transmitted to the other end of the connection, where it can be read by the program at that end.

The correct answers are: A socket is a kind of opening., A socket represents one endpoint of a network connection., A program uses a socket to communicate with another program over the network., Data written by a program to the socket at one end of the connection is transmitted to the other end of the connection, where it can be read by the program at that end.

Question **2**

Correct

Mark 1.00 out of 1.00

What does this code do?

```
import java.io.*;
// (TextReader.class must be available to this program.)
public class TenLinesWithTextReader {
    public static void main(String[] args) {
        try {
            TextReader in = new TextReader( new FileReader(args[0]) );
            for (int lineCt = 0; lineCt < 10; lineCt++) {
                String line = in.getln();
                System.out.println(line);
            }
        }
        catch (Exception e) {
            System.out.println("Error: " + e);
        }
    }
} // end class TenLinesWithTextReader
```

Select one:

- ☐ a. This code accesses a remote computer and requests 10 HTML pages.
- ☒ b. This code displays the first ten lines from a text file. The lines are written to standard c
- ☐ c. This code reads a file name, 10 characters long from a graphic file chooser dialog box

The correct answer is: This code displays the first ten lines from a text file. The lines are writer

Question **3**

Correct

Mark 1.00 out of 1.00

The class named URL resides in the java.io package. Which of the following statements describ

Select one or more:

- ☒ a. A URL is an address for a web page (or other information) on the Internet.
- ☐ b. A URL constructor creates an Address field in a Web browser.
- ☒ c. A URL object represents a Universal Resource Locator.
- ☒ d. Once you have a URL object, you can call its openConnection() method to access the that it represents.

The correct answers are: A URL is an address for a web page (or other information) on the Inte  
Universal Resource Locator., Once you have a URL object, you can call its openConnection() m  
the url address that it represents.

Question **4**

Correct

Mark 1.00 out of 1.00

The server listens for a connection request from a client using the following statement:

Select one:

- ☐ a. `Socket s = new Socket(ServerName, port);`
- ☒ b. `Socket s = serverSocket.accept();`
- ☐ c. `Socket s = serverSocket.getSocket();`
- ☐ d. `Socket s = new Socket(ServerName);`

The correct answer is: `Socket s = serverSocket.accept();`

Question **5**

Correct

Mark 1.00 out of 1.00

Which of the following statements describe a client/server model ?

Select one or more:

- ☒ a. Computer transactions using the client/server model are very common.
- ☐ b. Client/server describes the relationship between two computer programs in which one service request from another program, the client, which fulfills the request.
- ☒ c. Although the client/server idea can be used by programs within a single computer, it network.
- ☒ d. In a network, the client/server model provides a convenient way to interconnect programs efficiently across different locations.
- ☒ e. Client/server computing or networking is a distributed application architecture that partitions between service providers (servers) and service requesters, called clients.

The correct answers are: Computer transactions using the client/server model are very common. Although the client/server idea can be used by programs within a single computer, it is a more important idea in a network. In a network, the client/server model provides a convenient way to interconnect programs that are distributed efficiently across different locations. Client/server computing or networking is a distributed application architecture that partitions between service providers (servers) and service requesters, called clients.

Question **6**

Correct

Mark 1.00 out of 1.00

To create an InputStream to read from a file on a Web server, you use the class \_\_\_\_\_.

Select one:

- ☒ a. URL
- ☐ b. Server
- ☐ c. ServerSocket
- ☐ d. ServerStream

The correct answer is: URL

Question **7**

Correct

Mark 1.00 out of 1.00

Consider the following code:

```
BufferedImage OSC = new BufferedImage(32,32,BufferedImage.TYPE_INT_RGB);
```

Select one or more:

- ☒ a. A BufferedImage is a region in memory that can be used as a drawing surface.
- ☒ b. In this statement, the image that is created is 32 pixels wide and 32 pixels high, and the color of each pixel is an RGB color that has red, green, and blue components in the range 0 to 255.
- ☒ c. The picture in a BufferedImage can easily be copied into a graphics context g by calling one of the g.drawImage methods.
- ☒ d. The image drawn here is so small, it seems likely that it is going to be used to define an ImageIcon.

The correct answers are: A BufferedImage is a region in memory that can be used as a drawing surface, The image that is created is 32 pixels wide and 32 pixels high, and the color of each pixel is an RGB color that has red, green, and blue components in the range 0 to 255., The picture in a BufferedImage can easily be copied into a graphics context g by calling one of the g.drawImage methods., The image drawn here is so small, it seems likely that it is going to be used to define an ImageIcon.

Question **8**

Correct

Mark 1.00 out of 1.00

Which of these statements describe the *FontMetrics* class?

Select one or more:

- ☐ a. FontMetrics resides in the java.io package.
- ☒ b. The FontMetrics(Font font) constructor creates a new FontMetrics object for finding out what characters and strings are drawn in a specific font.
- ☒ c. The font is specified when the FontMetrics object is created.
- ☒ d. If fm is a variable of type FontMetrics, then, for example, fm.stringWidth(str) gives the width of the string str, and fm.getHeight() is the usual amount of vertical space allowed for one line of text.

The correct answers are: The FontMetrics(Font font) constructor creates a new FontMetrics object for finding out what characters and strings are drawn in a specific font., The font is specified when the FontMetrics object is created. If fm is a variable of type FontMetrics, then, for example, fm.stringWidth(str) gives the width of the string str, and fm.getHeight() is the usual amount of vertical space allowed for one line of text.

Jump to...

Question **9**

Correct

Mark 1.00 out of 1.00

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Interlaliasing ....

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Select one or more:

- ☐ a. Is intended to make an image look fuzzier.
- ☒ b. Is the smoothing of the image roughness caused by aliasing
- ☒ c. Is achieved by adjusting pixel positions or setting pixel intensities so that there is a more gradual transition between the color of a line and the background color.
- ☐ d. Makes images look perfect.

The correct answers are: Is the smoothing of the image roughness caused by aliasing, Is achieved by adjusting pixel positions or setting pixel intensities so that there is a more gradual transition between the color of a line and the background color.



Question **10**

Correct

Mark 1.00 out of 1.00

How is the *ButtonGroup* class used?

Select one or more:

- ☒ a. A ButtonGroup object is used with a set of radio buttons (or radio button menu items of the radio buttons in the group can be selected at any given time.
- ☒ b. To use the ButtonGroup class, you have to create a ButtonGroup object, grp. Then each radio button supposed to be part of the group is added to the group by calling grp.add(rb). Nothing further needs to be done with the ButtonGroup object.
- ☐ c. Creating a set of buttons with the same ButtonGroup object means that turning "on" one button turns "off" other buttons in the group.
- ☒ d. Typically a button group contains instances of JRadioButton, JRadioButtonMenuItem, or JToggleButton.

The correct answers are: A ButtonGroup object is used with a set of radio buttons (or radio button menu items) such that at most one of the radio buttons in the group can be selected at any given time., To use the ButtonGroup class, you have to create a ButtonGroup object, grp. Then each radio button, rb, that is supposed to be part of the group is added to the group by calling grp.add(rb). Nothing further needs to be done with the ButtonGroup object., Typically a button group contains instances of JRadioButton, JRadioButtonMenuItem, or JToggleButton.