What is a Graphics object?

1 The Graphics object represents the part of the Frame that you can draw on.
2 The Graphics object represents the entire monitor.
3 The Graphics object represents the whole Frame.
4 The Graphics object represents the graphics board.

Ans:1

What method must a button listener implement?
1 actionMethod().
2 buttonAction().
3 eventAction().
4 actionPerformed().

Ans:4.

In Java, what do you call an area on the screen that has nice borders and various buttons along the top border?
1 A box.
2 A window.
3 A screen.
4 A frame

Ans:4.

What method changes the color of a content pane?
1 setBackground()
2 setBackgroundColor()
3 setForegroundColor()
4 setColor()

Ans:1

How should a command string be compared with a literal string?
1 equals()
2 =
3 equalsIgnoreCase()
4 ==

Ans:1

How can the user be prevented from entering text into a text field?
1 By using setVisible(false)
2 By using setEditable(false)
3 By using setEditable(true)
4 By using setNotEditable()

Ans:2

The three software parts of a GUI program are:
1 Windows, Buttons, Mice
2 Frames, Code, Events
3 GUI Components, Event Listeners, Application Code
4 GUI Components, Graphics, Code

Ans:3

When is the paint() method of a frame object called?
1 The Java system calls it once when the program starts.
 2 The main() method calls it once when the program starts.
3 The user calls it to display the frame.

4 The Java system calls it every time it decides to display the frame.

Ans:4.

From what immediate base class is JTextField derived?
1 JText
2 JComponent
3 JTextComponent
4 JField

Ans:3

When the user clicks on a button, what is generated?
1 A Button object.
2 A Container
3 An Event.
4 A Listener.

Ans:3

What type of object determines where GUI components go in the content pane?
1 The layout manager.
2 The layabout programmer.
3 The frame hanger.
4 The layer organizer.

Ans:1

Which of the following are correct event handling methods
1 MousePressed(MouseClick e){}
2 mousePressed(MouseEvent e){}
3 functionKey(KeyPress k){}
4 componentAdded(ContainerEvent e){}

Ans:2,4

The size of a frame on the screen is measured in:
1 nits
2 dots
3 inches
4 pixels

Ans:4

What is the name for a method that responds to events?
1 An application method.
2 A snoop method.
3 A container method.
4 A listener method.

Ans:4

The fundamental classes for GUI programming are contained in the:
 1 Java Enhancement Toolkit
 2 Abstract Windowing Toolkit
 3 Graphics Event Toolkit
 4 GUI toolkit

Ans:2

Which of the following statements are true?
1 The collection interface contains a method called enumerator
2 The interator method returns an instance of the Vector class
3 The Set interface is designed for unique elements
4 At the root of the collection hierarchy is a class called Collection

Ans:3

How do you indicate where a component will be positioned using Flowlayout?
 1 North, South,East,West

2 Assign a row/column grid reference
3 Do nothing, the FlowLayout will position the component
4 Pass a X/Y percentage parameter to the add method

Ans:3

Why does an applet have no main() method?
1 The paint() method is like the main method for an applet.
2 The browser acts as the main. The applet provides methods for the browser.
3 Programs that do graphics don't need a main.
4 Only simple programs need a main.

Ans:2

What is the role of the Graphics object?
 1 It contains a list of commands from the browser to your applet.
 2 It can be omitted, but is sometimes used for file i/o.
 3 It represents the area the applet can draw in and provides drawing methods.
 4 It represents the entire screen of the computer monitor.

Ans:3

Which of the following puts "Hello" starting at X=20 Y=50? Assume that graph holds a Graphics object reference.
1 graph.drawString(20, 50, "Hello");
2 drawString("Hello", 20, 50);
3 graph.drawString("Hello", 20, 50);
4 graph.println("Hello");

Ans:3

Which of the following draws a circle with a radius of 50 at X=10, Y=20?
 1 graph.drawCircle(50, 50, 10, 20);
 2 graph.drawCircle(50);
 3 graph.drawOval(50, 50);
 4 graph.drawOval(10, 20, 50, 50);

Ans:4

What must be imported to get class Applet

1 java.awt.*
2 java.java
3 java.applet.Applet
4 java.util

Ans:3

What must be imported to get most graphics components?
1 java.*
2 java.util.*
3 java.Graphics
4 java.awt.*

Ans:4

What method call is used to draw a line from X=20, Y=30 to X=70, Y=50
1 gr.drawLine(20, 30, 70, 50);
2 gr.drawLine((20, 30), (70, 50));
3 gr.drawLine(20, 70, 30, 50);
4 gr.drawLine(20, 30, 50, 70);

Ans:1

What method of your applet is called by the browser when it wishes to display it on the monitor?
1 setColor()
2 setBackground()
3 drawLine()
4 paint()

Ans:4

Can the source code for your applet be compiled by the usual javac compiler?
1 Yes---if you are going to run it from the DOS prompt.
2 Yes---an applet is just another class as far as the compiler is concerned.
3 No---because applets have no main()
4 No---the web browser compiles the code.

Ans:2.

Can two or more applets appear on the same web page?
1 No, applets can't appear on web pages.
2 Yes, but there must be <applet> and </applet> for each one.
3 Yes, put them all between <applet> and </applet>
4 No, only one per page.

Ans:2

The syntax of drawstring() method is…………….
 1 void drawstring(String x,int x)
 2 void drawstring(String s)
 3 void drawstring(intx,inty,string s)
 4 void drawstring(String s,intx,int y)

Ans:4

The syntax of paint()method is…………….
1 public void paint(Graphics g)
2 public void paint(String s)
3 public void paint(Graphics g,String s)
4 public void paint()

Ans:1.

The constructor for Font class is……………
 1 Font(String name,int style)
 2 Font(string name,intstyle,int size)
 3 Font(String name)
 4 Font(String name,int size)

Ans:2

To display text in the applet status bar………method is used.
1 showStatus()
2 drawStatusBar()
3 drawStatus()
4 showStatusBar()

Ans:1

which of the following is an optional attribute of applet tag?
1 Code
2 Name
3 Height
4 Width

Ans:2

Which method is called first by an applet?
1 run()
2 init()
3 paint()
4 start()

Ans:2

What should be done to invoke the run() method on a thread for an object derived from the Thread class. Select the one correct answer.
explanation
The start() method invokes the run() method when the thread is ready to execute.
1 The start() method should be directly invoked on the Object.
2 The init() method should be directly invoked on the Object.
3 The run() method should be directly invoked on the Object.
4 The creation of the object using the new operator would create a new thread and invoke its run() method.

Ans:1

What is the default priority of a newly created thread.
explanation
The start() method invokes the run() method when the thread is ready to execute.
1 MAX_PRIORITY (which is defined as 10 in the Thread class.)
2 A thread inherits the priority of its parent thread.
3 NORM_PRIORITY (which is defined as 5 in the Thread class.)
4 MIN_PRIORITY (which is defined as 1 in the Thread class.)

Ans:2

The class Hashtable is used to implement which collection interface.
Select the one correct answer.
1 SortedSet
2 List
3 Map
4 Set

Ans:3

Which of the following statements are true. Select the two correct answers.
1 The notify() and notifyAll() methods can be used to signal and move waiting threads to ready-to-run state.
2 The wait(), notify(), and notifyAll() methods must be executed in synchronized code.
3 The Thread class is an abstract class.
4 The wait method defined in the Thread class, can be used to convert a thread from Running state to Waiting state.

Ans:1,2

What is the name of the Collection interface used to represent elements in a sequence (in a particular order). Select the one correct answer.
1 Map
2 Set
3 List
4 Collection

Ans:3

Which of these classes implement the Collection interface SortedMap.
Select the one correct answers.
1 TreeMap
2 Hashtable
3 HashMap
4 TreeSet

Ans:1

The start() method invokes the run() method when the thread is ready to execute.
1 Output of first0, first1, second0, second1
2 Compile time error
3 Output of first0, second0, first0, second1
4 Runtime error

Ans:1

Which most closely matches a description of a Java Map?
1 A class for containing unique array elements
2 A vector of arrays for a 2D geographic representation
3 A class for containing unique vector elements

4 An interface that ensures that implementing classes cannot contain duplicate keys

Ans:4

How does the set collection deal with duplicate elements?
1 Duplicate values will cause an error at compile time
2 An exception is thrown if you attempt to add an element with a duplicate value
3 The add method returns false if you attempt to add an element with a duplicate value
4 A set may contain elements that return duplicate values from a call to the equals method

Ans:3

What can cause a thread to stop executing?
1 A call to the thread's stop method.
2 Another thread is given a higher priority
3 The program exits via a call to System.exit(0);
4 A call to the halt method of the Thread class?

Ans:1,2,3

Under what circumstances might you use the yield method of the Thread class?

explanation

The start() method invokes the run() method when the thread is ready to execute.

1 To call from the currently running thread with a parameter designating which thread should be allowed to run

2 To call from the currently running thread to allow another thread of the same or higher priority to run

3 To allow a thread of higher priority to run

4 To call on a waiting thread to allow it to run

Ans:2

Which of the following are methods of the Thread class?
1 go()
2 stop()
3 yield()
4 sleep(long msec)

Ans:4,2,3

Which of the following methods are members of the Vector class and allow you to input a new element?

explanation

The start() method invokes the run() method when the thread is ready to execute.

1 addItem
2 append
3 addElement
4 insert

Ans:3

Which of the following are methods of the Collection interface?
1 isEmpty
2 iterator
3 setText
4 toArray

Ans:1,2,4

SortedMap is a/an?
1 Class
2 Interface
3 Method
4 Abstract Class

Ans:2

How can you prevent a member variable from becoming serialized?
1 You can not.
2 By marking it transient
3 By marking it volatile
4 By marking it private

Ans:2

What can cause a thread to become non-runnable?
explanation
The start() method invokes the run() method when the thread is ready to execute.
1 Calling the notifyAll method on an object.
2 Calling the notify method on an object.
3 Exiting from a synchronized block
4 Calling the wait method on an object.

Ans:4

Declare and construct a Vector with 20 initial slots and an increment size of 5.
1 Vector v = new Vector(20)
2 Vector v(20) = new Vector(5)
3 Vector v = new Vector(20, 5)
4 Vector[] v = new Vector(20,5)

Ans:3

A Vector object acts like:
1 An array of primitive values.
2 An array of primitive values or of object references.
3 An array of references to objects of a particlar class.
4 An array of references to objects of class Object.

Ans:4

Which of the following opens the file "myData.stuff" for Input?
1 FileInputStreamfis = new FileInputStream(new BufferedInputStream("myData.stuff"))
2 FileInputStreamfis = new FileInputStream("myData.stuff", true)
3 FileInputStreamfis = new FileInputStream("myData.stuff")
4 DataInputStream dis = new DataInputStream("myData.stuff")

Ans:2

Which of the following best describes the use of the synchronized keyword?
1 Ensures only one thread at a time may access a method or object
2 Allows two process to run in paralell but to communicate with each other
3 Ensures that two or more Threads will start and end at the same time
4 Ensures that two or more processes will start and end at the same time

Ans:1

What package holds the File class?
1 java.file
2 java.io
3 java.lang
4 java.util

Ans:2

What method of File is used to test if a file or directory exists?
1 list()
2 isFile()
3 exists()
4 isDirectory()

Ans:3

A program uses the FileWriter constructor with the string "newFile.txt".
What happens if "newFile.txt" already exists?
1 The constructor returns null.
2 The program exits.
3 The existing file is erased and replace with a new, empty one.
4 An exception is thrown.

Ans:3

What File method creates a new disk directory?
1 dir()
2 mkdir()
3 list()
4 makeDirectory()

Ans:2

In the following, what is the directory separator character?
C:\MyFiles\Programs\Examples\someFile.txt
1 .
2 :
3 \
4 /

Ans:3

How many bits per character does a Java program use?
1 16
2 4
3 32
4 8

Ans:1

What does the flush() method of a stream do?
1 It ensures that all pending output operations are completed.
2 It erases all the data in the file.
3 It summons the garbage collector.
4 It initializes the output methods.

Ans:1

What data type does readLine() return?
1 String
2 int
3 char
4 byte[]

Ans:1

What class does readLine() belong to?
1 InputStreamReader
2 BufferedReader
3 FileReader
4 Reader

Ans:2

What abstract data type is the ancestor of all streams that output byte-oriented data?
1 OutputStream
2 BinaryOutputStream
3 ByteStream
4 ByteOutputStream

Ans:1

What is the DataInputStream method that reads an int value?
1 ReadInt( )
2 readInt()
3 read()
4 ReadInteger()

Ans:2

What happens when the constructor for FileInputStream fails to open a file for reading?
1 It returns null.
2 It throws a DataFormatException.
3 It throws aArrayIndexOutOfBoundsException.
4 It throws a FileNotFoundException.

Ans:4

Which of the following statements are true. Select the two correct answers.
1 The wait method defined in the Thread class, can be used to convert a thread from Running state to Waiting state.
2 The Thread class is an abstract class.
3 The notify() and notifyAll() methods can be used to signal and move waiting threads to ready-to-run state.
4 The wait(), notify(), and notifyAll() methods must be executed in synchronized code.

Ans:3,4

Which of these classes implement the Collection interface SortedMap. Select the one correct answers.
1 Hashtable
2 HashMap
3 TreeSet
4 TreeMap

Ans:4

How does the set collection deal with duplicate elements?
1 A set may contain elements that return duplicate values from a call to the equals method

2 The add method returns false if you attempt to add an element with a duplicate value
3 Duplicate values will cause an error at compile time
4 An exception is thrown if you attempt to add an element with a duplicate value

Ans:2

What can cause a thread to stop executing?

1 Another thread is given a higher priority
2 A call to the thread's stop method.
3 A call to the halt method of the Thread class?
4 The program exits via a call to System.exit(0);

Ans:1,2,4

Which of the following are methods of the Thread class?
1 sleep(long msec)
2 yield()
3 stop()
4 go()

Ans:1,2,3

Which of the following are methods of the Collection interface?
1 setText
2 iterator
3 toArray
4 isEmpty

Ans:2,3,4

How can you prevent a member variable from becoming serialized?
1 By marking it volatile
2 By marking it private
3 By marking it transient
4 You can not.

Ans:3

What is the name of the printed output of a program that shows the byte-by-byte contents of a binary file?

1 Pattern Listing
2 Binary Refuse
3 Hex Dump
4 Charmed Display

Ans:3