

Chapter 7 – Applets

Question 1:

Given the code below,

```
1.      public void paint(Graphics g)
2.      {
3.          g.drawOval(100,100,80,40);
4.      }
```

- ☐ A) A circle with radius of 100 will be painted on the screen.
- ☐ B) An oval that its center is at (100,100) will be painted on the screen.
- ☐ C) An oval that its center is at (80,40) will be painted on the screen.
- ☐ D) An oval that its width is 80 and its height is 40 will be painted on the screen.
- ☐ E) An oval that its width is 100 and its height is 100 will be painted on the screen.

Question 2:

In order to change the color that a graphic context uses to red the argument that can be sent to the setColor method is:

- ☐ A) Color.red
- ☐ B) Color.RED
- ☐ C) "Color.red"
- ☐ D) "red"
- ☐ E) new Color(red)
- ☐ F) Color.green.blue.red

Question 3:

True or False:

When there is a need to repaint a GUI component the GUI thread passes to the paint() method a graphic context whose clip region was already set to the region that need to be repainted.

- ☐ A) True
- ☐ B) False

Question 4:

Which one of the following code fragments will compile successfully ?

Assume that SansSerif is a legal font name.

- ☐ A) `Font myFont = new Font(Font.SansSerif, italic, 10);`
- ☐ B) `Font myFont = new Font("SansSerif", "italic", 10);`
- ☐ C) `Font myFont = new Font("SansSerif", Font.ITALIC , 10);`
- ☐ D) `Font myFont = new Font("SansSerif", "ITALIC", "10");`
- ☐ E) `Font myFont = new Font(Font.SansSerif, "italic", "10");`

Question 5:

Given the code below,

```
1.      public void paint(Graphics g)
2.      {
3.          g.drawString("Israel2000", 100, 50);
4.      }
```

- ☐ A) The string "Israel2000" will be painted as its bottom left corner at 100,50.
- ☐ B) The string "Israel2000" will be painted as its center at 100,50.
- ☐ C) The string "Israel2000" will be painted as its top right corner at 100,50.
- ☐ D) The code does not compile.
- ☐ E) The code compiles successfully but nothing is painted.

Question 6:

Given the next two methods declared within the applet class,

```
1.      public void mousePressed(MouseEvent event)
2.      {
3.          x = event.getX();
4.          y = event.getY();
5.          repaint();
```

```
6.      }  
7.  
8.      public void paint(Graphics g)  
9.      {  
10.         g.setColor(Color.red);  
11.         g.drawRect(x,y,10,10);  
12.     }
```

Which sentences are true ?

- ☐ A) Each time the user clicks the mouse a new rectangle is added to the screen.
- ☐ B) One way of changing the way this applet works, in a way that each mouse click will add a new rectangle to the screen and leave the previous rectangles in their place is overriding the update method.
- ☐ C) Each time the user clicks the mouse the screen background is cleared and a new rectangle is added.

Question 7:

Given the code below,

```
1.  public void paint(Graphics g)
2.  {
3.      g.setColor(Color.green);
4.      g.drawLine(5,5,50,50);
5.  }
```

- ☐ A) A red line will be painted
- ☐ B) The length of the painted line is 50
- ☐ C) The length of the painted line is 55
- ☐ D) The length of the painted line is 45
- ☐ E) A green line will be painted

Question 8:

Given the code below,

```
1.  public class MyApplet extends Applet
2.  {
3.      public void init()
4.      {
5.          String str = "Israel";
6.          str = getParameter("size").toUpperCase();
7.      }
8.  }
```

```
1.  <applet code="MyApplet.class" width=100 height=60>
2.  <param name="Size" value="Israel2000">
3.  </applet>
```

- () A) The value of str is "Israel"
- () B) The value of str is "ISRAEL2000"
- () C) The value of str is "israel2000"
- () D) The value of str is "Israel2000"
- () E) The value of str is null

Question 9:

True or False:

The `getParameter` method isn't case sensitive regarding the argument which it gets.

- ☐ A) True
- ☐ B) False

Question 10:

True or False:

The `getParameter` method returns false if it doesn't succeed in its action.

- ☐ A) True
- ☐ B) False

Question 11:

True or False:

Using the archive attribute in the applet tag doesn't mean that the specified jar file must contain the applet class file.

- ☐ A) True
- ☐ B) False

Question 12:

True or False:

The code attribute in the applet tag is case sensitive.

- ☐ A) True
- ☐ B) False

Question 13:

True or False:

The name attribute in the param tag is case sensitive.

- ☐ A) True
- ☐ B) False

Question 14:

True or False:

The archive attribute in the applet tag can specify more than one jar file.

- ☐ A) True
- ☐ B) False

Question 15:

True or False:

The value of the codebase attribute in the applet tag can be a URL address that points at the applet class file in another machine (a different machine than the one that holds the html file)

- ☐ A) True
- ☐ B) False

Question 16:

True or False:

The paint method gets a reference to a Graphic object from the browser.

- ☐ A) True
- ☐ B) False

Question 17:

True or False:

The method init() is activated after the start method().

- ☐ A) True
- ☐ B) False

Question 18:

Which of the following sentences is\are true ?

- ☐ A) An applet can't activate other programs that reside in the same computer on which they are activated.
- ☐ B) An applet can't read nor write to the file system of the computer on which they are activated.
- ☐ C) An applet can't communicate with computers other the one from which they arrived.

Question 19:

True or False:

Writing an applet that runs in the Internet Explorer ensures that it will run on every computer.

- ☐ A) True
- ☐ B) False

Question 20:

True or False:

It is possible to install a specific software in order to make it possible for the Internet Explorer to run every applet that was created using Java 2.

- ☐ A) True
- ☐ B) False

Question 21:

Given the code below:

```
1.  import java.awt.*;
2.  import java.applet.*;
3.  public class Zapplet extends Applet
4.  {
5.      int num;

6.      public Zapplet()
7.      {
8.          num = 9;
9.      }

10.     public void init()
11.     {
12.         num++;
13.     }

14.     public void paint(Graphics g)
15.     {
16.         g.drawString(""+num, 100, 100);
17.     }
18. }
```

The output is:

- ☐ A) 9
- ☐ B) 10
- ☐ C) 1
- ☐ D) 0
- ☐ E) The code doesn't compile

Question 22:

In order to change the color that a graphic context uses to red the argument that can be sent to the setColor method might be:

- ☐ A) Color.red
- ☐ B) Color.green.red
- ☐ C) (new Color(100,200,100)).red
- ☐ D) Color.black.red
- ☐ E) Color.red.red.red
- ☐ F) Color.blue.red

Question 23:

True or False:

It is possible to declare an applet which is also an application by declaring the main method.

- ☐ A) True
- ☐ B) False

Question 24:

In order to change the color that a graphic context uses to green the argument that can be sent to the setColor method is:

- ☐ A) Color.red
- ☐ B) Color.GREEN
- ☐ C) "Color.red.green"
- ☐ D) "green"
- ☐ E) new Color(green)
- ☐ F) Color.green.blue.red.green