



OBJECT ORIENTED PROGRAMMING WITH JAVA

Assignment9

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which of the following is/are interface(s) in javax.swing package?

- a. MenuElement
- b. BoxLayout
- c. JComponent
- d. Scrollable

Correct Answer: a, d

Detailed Solution:

MenuElement:

Any component that can be placed into a menu should implement this interface.

Scrollable:

An interface that provides information to a scrolling container like JScrollPane.

All others are Class.

QUESTION 2:

Which of the following Listener(s) is/are not supported by button (Swing component)?

- a. ActionListener
- b. ChangeListener
- c. ItemListener
- d. WindowListener

Correct Answer: d

Detailed Solution:

Except WindowListner, all other Listeners supported by button component.



This table lists Swing components with their specialized listeners

Component	Action Listener	Caret Listener	Change Listener	Document Listener, Undoable Edit Listener	Item Listener	List Selection Listener	Window Listener	Other Types of Listeners
button	✓		✓		✓			
check box	✓		✓		✓			
color chooser			✓					
combo box	✓				✓			
dialog							✓	
editor pane		✓		✓				hyperlink
file chooser	✓							
formatted text field	✓	✓		✓				
frame							✓	

QUESTION 3:

Which of the following Listener Interface has an Adapter Class?

- a. ActionListener
- b. ChangeListener
- c. ComponentListener
- d. ItemListener

Correct Answer: c

Detailed Solution:

Only ComponentListener is having an Adapter class *ComponentAdapter* (among the options).

QUESTION 4:

To set a FlowLayout in a panel, say jp, which of the following method(s) that you can use?

- a. `jp.setLayout(new FlowLayout());`
- b. `jp.setLayout(new FlowLayout(FlowLayout.CENTER));`
- c. `jp.setLayout(new FlowLayout(FlowLayout.center));`
- d. `jp.setLayout(FlowLayout());`

Correct Answer: a, b

Detailed Solution:

(c) and (d) are not valid according to the syntax.

QUESTION 5:



Which package provides many methods for graphics programming?

- a. java.awt
- b. java.Applet
- c. java.Graphics
- d. java.io

Correct Answer: a

Detailed Solution:

There is no package like java.Graphics and java.Applet. The Graphics class and other classes, which are necessary for GUI programming is defined in java.awt package.

QUESTION 6:

In Java AWT, TextArea and TextField are subclass of:

- a. List.
- b. Label.
- c. TextComponent.
- d. TextComponent and Label, respectively.

Correct Answer: c

Detailed Solution: TextArea and TextField are the two sub classes of TextComponent in Java AWT.

QUESTION 7:



Analyze the following code.

```
import java.awt.*;
import javax.swing.*;

public class Test {
    public static void main(String[] args) {
        JFrame frame = new JFrame("My Frame");
        frame.add(new JButton("OK"));
        frame.add(new JButton("Cancel"));
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(200, 200);
        frame.setVisible(true);
    }
}
```

Which button will be displayed?

- a. OK
- b. Cancel
- c. both
- d. None

Correct Answer: b

Detailed Solution:

By default, the layout of the content pane in a JFrame is BorderLayout. Button OK is placed in the center of content pane, then button Cancel is placed in the same place. So you only can see button Cancel.

QUESTION 8:

In JLabel(Icon, int) method/constructor, the int argument specifies the horizontal alignment of the label's contents within its drawing area.

Which of the following is/are valid constants for horizontal alignment?

- a. RIGHT
- b. LEADING
- c. TRAILING
- d. TOP

Correct Answer: a,b,c



Detailed Solution:

TOP is not a valid constant for horizontal alignment.

QUESTION 9:

Select the correct statement(s) in the following.

- a. JTextField cannot be used as an alternative to JLabel.
- b. JLabel cannot be used as an alternative to JTextField.
- c. Button grouped radio button cannot be used as an alternative to JComboBox.
- d. The class JPasswordField extends the class JLabel.

Correct Answer: b

Detailed Solution:

- a) **False:** Setting JTextField property 'setEditable=False'; it can be used as a label.
 - b) **True:** Label cannot be used to input data (it is never editable).
 - c) **False:** In a button grouped radio button, only one item can be selected similar to JComboBox. So, they can be used interchangeably.
 - d) **False:** JPasswordField extends JTextField.
-

QUESTION 10:

Which of the following is/ are not related with keyboard event?

- a. Class KeyEvent is used to notify if any key pressed occurs or not.
- b. The KeyListener should be added either in init() or the main method.
- c. RequestFocus should be added either in init() or the main method.
- d. The class InputEvent should be imported explicitly in the program.

Correct Answer: d

Detailed Solution:

The InputEvent class is the super class of all the sub classes dealing with events from different sources. When, we import java.awt.*, we import it automatically. No need to import it explicitly.

*****END*****



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