OBJECT ORIENTED PROGRAMMING WITH JAVA

Assignment 9

TYPE OF QUESTION: MCQ

Number of questions: 10   **Total mark: 10 × 1 = 10**

QUESTION 1:

Which of the following steps are must for any kind of event handling?

    a. Implement the listener method(s) to receive and process event related notifications.
    b. Adding mouse listener in the init() method.
    c. Register the source(s) to receive notifications about specific type of event(s).
    d. Adding mouse motion listener in the main() method .

Correct Answer: a, c

Detailed Solution:
There are two basic steps so far the event handling is concerned: 1) Register all the sources of events and 2) implement the listener methods related to the event(s). The (b) and (d) are related to dealing with handling mouse event.

QUESTION 2:

Which of the following is(are) NOT related to a keyboard event?

    a. The class `KeyEvent` is used to notify if any key pressed occurs or not.
    b. The `KeyListener` should be added either in `init()` or `main()` method.
    c. `RequestFocus` should be added either in `init()` or `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.

QUESTION 3:

Which of the following method is used to set a frame, say `f` with size 300 × 200 pixels?

```
JFrame f = new JFrame();
```

a. f.setSize(300, 200);
b. f.setSize(200, 300);
c. f.paint(300, 200);
d. f.setVisible(300, 200);

Correct Answer: a

Detailed Solution:

The setSize(300,200) method is used to do the job. Other are either syntactically not valid or not appropriate.

QUESTION 4:

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 'setEditble=False'; it can be used as a label.*
b) **True**: *Label cannot be used to input data (it is never editble).*
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 5:

Which of the following classes can be used to represent a checkbox with a textual label that can appear in a menu?

a. MenuBar
b. MenuItem
c. CheckboxMenuItem

d. Menu

Correct Answer: c

Detailed Solution:
The component CheckboxMenuItem is with a textual label that can appear in a menu.

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QUESTION 6:

How many frames will be displayed according to the following program?

```
import javax.swing.*;
public class Test{
    public static void main(String[] args){
        JFrame f1 = new JFrame("My Frame");
        JFrame f2 = f1;
        JFrame f3 = f2;
        f1.setVisible(true);
        f2.setVisible(true);
        f3.setVisible(true);
    }
}
```

a. 0
b. 1
c. 2
d. 3

Correct Answer: b

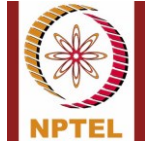**Detailed Solution:**
Although there are three frames declared, eventually they refer to only one frame.

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QUESTION 7:

Which layout manager places components in one of five regions: north, south, east, west, and center?

a. CardLayout

b. GridLayout

c. BorderLayout

d. FlowLayout

Correct Answer: c

Detailed Solution:
This is the layout that the BorderLayout does.

QUESTION 8:

What is(are) the way(s) to create a Frame using Java Swing?

a. By creating the object of Frame class (*association*)
b. By extending Frame class (*inheritance*)
c. By importing a package named JFrame
d. By declaring a class with name JFrame

Correct Answer: a, b

Detailed Solution:
We can create a frame component by creating the object of Frame class (*association*) and by extending Frame class (*inheritance*).

QUESTION 9:

Which of the following class is used to create a pop-up list of items from which the user may choose?

a. JList
b. JComboBox
c. JLabel
d. JCheckBox

Correct Answer: b

Detailed Solution:
The JComboBox component creates a pop-up list.

QUESTION 10:

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.

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