



PROGRAMMING IN JAVA

Assignment 8

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which of the following method is/are of class button in java.awt package ?

- a. getLabel()
- b. setLabel(String label)
- c. getCurrent()
- d. getItem(int index)

Correct Answer: a, b

Detailed Solution:

setLabel(String label) method Changes this button's label to be the String argument and and getLabel() method returns the current label of the button.

QUESTION 2:

Which of the following is **NOT** a class of java.awt package?

- a. Button
- b. Component
- c. Dialog
- d. Paint

Correct Answer: d

Detailed Solution:

Paint is interface of java.awt package.



QUESTION 3:

Which of the following statement(s) is/are correct?

- a. AWT components are platform-independent.
- b. AWT follows the MVC (Model View Controller).
- c. Swing components are platform-dependent.
- d. Swing follows MVC (Model View Controller).

Correct Answer: d

Detailed Solution:

AWT components are platform dependent and not follow MVC. Swing components follow MVC and are platform independent.

QUESTION 4:

When we invoke `repaint()` for a `java.awt.Component` object, the AWT invokes which of the following method ?

- a. `draw()`
- b. `show()`
- c. `update()`
- d. `paint()`

Correct Answer: c

Detailed Solution:

The `repaint()` method calls automatically `update()` method and in turn `update()` method calls `paint()` method.

QUESTION 5:

Which package provides many event classes and Listener interfaces for event handling?

- a. `java.awt`
- b. `java.lang`
- c. `java.io`
- d. `java.util`

Correct Answer: a

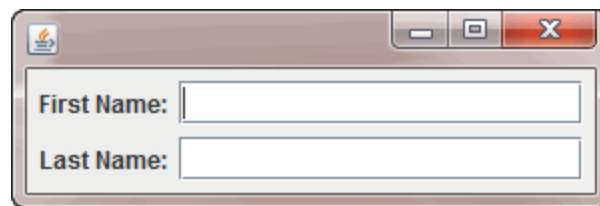


Detailed Solution:

The class Event is declared in java.awt package which is used for event classes and Listener interfaces for event handling.

QUESTION 6:

Which of the following is TRUE about the following GUI?



- a. There is a Frame and two TextFields.
- b. There is a Frame with two Labels and two non-editable TextFields.
- c. There are two Labels.
- d. There is a Frame with two Labels and two TextFields.

Correct Answer: d

Detailed Solution:

There is a Frame with two Labels and two TextFields in the given GUI.

QUESTION 7:

Which of the following is TRUE regarding check box and radio button?

- a. Check box is used for single selection item whereas radio button is used for multiple selection.
- b. Check box is used for multiple selection items whereas radio button is used for single selection.
- c. Both are used for multiple as well as single item selection.
- d. Checkbox is always preferred than radio buttons.

Correct Answer: b

Detailed Solution:

Check box is used for multiple selection items whereas radio button is used for single selection. For example, if a form is asking for your favorite hobbies, there might be multiple correct



answers to it, in that case check box is preferred. And if a form is asking about gender, there must be only one true option among the multiple choices, in that case radio buttons are used.

QUESTION 8:

Which of the following is TRUE about check box in Java?

- a. A check box can be in either an "on" (true) or "off" (false) state.
- b. Clicking on a check box changes its state from "on" to "off," or from "off" to "on."
- c. A check box can be in an "on" (true) and in "off" (false) state simultaneously.
- d. Check boxes cannot be grouped together.

Correct Answer: a, b

Detailed Solution:

A check box is a graphical component that can be in either an "on" (true) or "off" (false) state. Clicking on a check box changes its state from "on" to "off," or from "off" to "on.". A check box cannot be in both "on" and "off" state simultaneously. Further, several check boxes can be grouped together under the control of a single object, using the CheckboxGroup class. In a check box group, at most one button can be in the "on" state at any given time. Clicking on a check box to turn it on forces any other check box in the same group that is on into the "off" state.

QUESTION 9:

Which of the following is the latest graphics and media package for Java?

- a. Applet
- b. AWT
- c. Swing
- d. JavaFX

Correct Answer: d

Detailed Solution:

JavaFX is a set of latest graphics and media packages in Java that enables developers to design, create, test, debug, and deploy rich client applications that operate consistently across diverse platforms.

More details can be found here: <https://docs.oracle.com/javafx/2/overview/jfxpub-overview.htm>.



QUESTION 10:

If `setText(String text)` is a method of `Label` class, then why it is called non editable?

- a. Because user-input is unavailable during runtime.
- b. A `Label` is just a `TextField` with non-editable property turned on.
- c. Labels are editable by default.
- d. `setText(String text)` is not a method of `Label` class.

Correct Answer: a

Detailed Solution:

A label class is non-editable during runtime by the user, but internal functions can change the text using the `setText(String text)` function.
