

Assignment 5.6:

Answer the following questions and submit them to your instructor at the beginning of Unit 6. **Note:** Some questions may go across multiple pages; be sure to read the entire question and all answer options.

1. The signature for the accessor method of a Date property birthDate should be _____.
 - a. public java.util.Date birthDate()
 - b. public java.util.Date getBirthDate()
 - c. public java.util.Date getbirthDate()
 - d. private java.util.Date getBirthDate()
 - e. private java.util.Date birthDate()
2. Any event is an instance of _____.
 - a. java.awt.Component
 - b. java.util.EventObject
 - c. java.awt.ActionEvent
 - d. javax.swing.JComponent
3. _____ is a support class that provides default implementations for all the methods in the listener interface.
 - a. An adapter
 - b. An event adapter
 - c. A convenience listener adapter
 - d. A listener adapter
4. _____ creates an ActionEvent.
 - a. new ActionEvent(null, ActionEvent.ACTION_PERFORMED, this);
 - b. new ActionEvent(this)
 - c. new ActionEvent()
 - d. new ActionEvent(this, ActionEvent.ACTION_PERFORMED, null);
5. The signature for the accessor method of a Boolean property visible should be _____.
 - a. public static boolean isVisible()
 - b. public boolean getVisible()
 - c. public boolean visible()
 - d. public boolean isVisible()
 - e. private boolean isVisible()

6. Which of the following statements are true with regard to a source component?
(Hint: There are multiple answers.)
- a. The source component contains the code to create an event.
 - b. The source component should always contain the code that registers a listener with the source.
 - c. The registration and deregistration methods are synchronized to avoid race condition on the list that stores the listeners.
 - d. The source component contains the code for invoking the event handler from each listener for the source.
7. The signature for the mutator method of a Date property birthDate should be _____.
- a. `public void setBirthDate(java.util.Date date)`
 - b. `public void birthDate()`
 - c. `public void setbirthDate()`
 - d. `public void birthDate(java.util.Date date)`
8. Which of the following statements about creating custom event sets are true?
(Hint: There are multiple answers.)
- a. A custom event class must extend `java.util.EventObject` or a subclass of `java.util.EventObject`.
 - b. A listener interface for a custom event `BeanEvent` should be named `BeanListener` by convention.
 - c. By convention, an event class should be named with the suffix `Event`.
 - d. An event class does not have a no-arg constructor because you must always specify a source for the event when creating an event.
 - e. A custom event listener interface must extend `java.util.EventListener` or a subinterface of `java.util.EventListener` and define the signature of the handlers.
9. An event and its corresponding listener are referred to as _____.
(Hint: There are multiple answers.)
- a. an event class
 - b. an event pair
 - c. an event set
 - d. an event object

10. Any listener is an instance of _____.
- java.awt.ActionListener
 - java.util.EventListener
 - java.util.EventObject
 - javax.swing.JComponent
11. An event adapter can be implemented using _____.
(Hint: There are multiple answers.)
- a standard adapter
 - an anonymous inner class adapter
 - an inner class adapter
 - an ActionListener adapter
12. The signature for the registration method for an ActionEvent should be _____.
- public void addActionListener(ActionListener l)
 - public void setAction(ActionListener l)
 - public void addActionListener(ActionEvent l)
 - public void setActionListener(ActionListener l)
13. Which of the following statements are true? (Hint: There are multiple answers.)
- A bean must be a public class.
 - A bean must implement the java.io.Serializable interface to ensure a persistent state.
 - A bean cannot have any constructors with parameters.
 - A bean must have a public no-arg constructor.
14. Which of the following statements is true?
- Every Java GUI component is a JavaBeans component.
 - A bean must provide both accessor method and mutator method for each data field in the class.
 - A bean must provide a mutator method for each data field in the class.
 - A bean must provide an accessor method for each data field in the class.
 - A bean property must be defined as a data field.
15. Which of the following statements is true? (Hint: There are multiple answers.)
- A source component must have the appropriate registration and deregistration methods for adding and removing listeners.
 - The naming pattern for adding a unicast listener is "public void add<Event>Listener(<Event>Listener l) throws TooManyListenersException"

- c. Events can be unicasted (only one listener object is notified of the event).
 - d. The naming pattern for adding a multicast listener is `"public void add<Event>Listener(<Event>Listener l)"`
 - e. Events can be multicasted (each object in a list of listeners is notified of the event).
16. The component for storing and handling data, known as a _____, contains the actual contents of the component.
- a. model
 - b. view
 - c. controller
 - d. None of above is correct.