

Unit : 03 Event Handling

- 1) Which of these packages contains all the classes and methods required for even handling in Java?
 - a) `java.applet`
 - b) `java.awt`
 - c) `java.event`
 - d) `java.awt.event`**

- 2) What is an event in delegation event model used by Java programming language?
 - a) An event is an object that describes a state change in a source.**
 - b) An event is an object that describes a state change in processing.
 - c) An event is an object that describes any change by the user and system.
 - d) An event is a class used for defining object, to create events.

- 3) Which of these methods are used to register a keyboard event listener?
 - a) `KevListener()`
 - b) `addKistener()`
 - c) `addKevListener()`**
 - d) `eventKeyboardListener()`

- 4) Which of these methods are used to register a mouse motion listener?
 - a) `addMouse()`
 - b) `addMouseListener()`
 - c) `addMouseMotionListner()`**
 - d) `eventMouseMotionListener()`

- 5) Event class is defined in which of these libraries?
 - a) `java.io`
 - b) `java.lang`
 - c) `java.net`
 - d) `java.util`**

- 6) Which of these methods can be used to determine the type of event?
 - a) `getID()`
 - b) `getSource()`
 - c) `getEvent()`**
 - d) `getEventObject()`

- 7) Which of these class is super class of all the events?
 - a) `EventClass`
 - b) `EventObject`**
 - c) `ActionEvent`
 - d) `ItemEvent`

- 8) Which of these events will be notified if scroll bar is manipulated?
 - a) `ActionEvent`
 - b) `ComponentEvent`**

- c) **AdjustmentEvent**
d) **WindowEvent**
- 9) Which of these events will be generated if we close an applet's window?
a) ActionEvent
b) ComponentEvent
c) AdjustmentEvent
d) **WindowEvent**
- 10) The Following steps are required to perform
1) Implement the Listener interface and overrides its methods
2) Register the component with the Listener
a) Exception Handling
b) String Handling
c) **Event Handling**
d) None of the above
- 11) The following specifies the advantages of
It is lightweight.
It supports pluggable look and feel.
It follows MVC (Model View Controller) architecture.
a) **Swing**
b) AWT
c) Both A & B
d) None of the above
- 12) Which class header would be used to create an applet that accepts a click on a button?
a)public class MyApplet extends Japplet implements Listener
b)public class MyApplet extends Japplet implements ActionListener
c)public class MyApplet extends Japplet implements ActionEvent
d)public class MyApplet extends Japplet implements Event
- 13) Select correct Listener from given option for *****.
import java.awt.*; import
java.awt.event.*;
import javax.swing.*;
- ```
public class JR extends JApplet implements ****
{
Container c=getContentPane(); public
void init()
{
c.setLayout(new FlowLayout());
```

```
JRadioButton b1=new JRadioButton("red");
b1.addActionListener(this); c.add(b1);
```

```
JRadioButton b2=new JRadioButton("blue");
b2.addActionListener(this); c.add(b2);
```

```
JRadioButton b3=new JRadioButton("green");
b3.addActionListener(this); c.add(b3);
```

```
ButtonGroup bg=new ButtonGroup();
bg.add(b1);
bg.add(b2);
bg.add(b3); }

public void actionPerformed(ActionEvent e)
{
String str;
str=e.getActionCommand(); if(str=="red")
c.setBackground(Color.red);
else if(str=="blue")
c.setBackground(Color.blue);
else if(str=="green")
c.setBackground(Color.green);
}
```

```
/*<applet code=JR width=200 height=200></applet>*/
```

- a) ItemListener
- b) ActionListener**
- c) MouseListener
- d) WindowListener

14) Which of these methods will respond when you click any button by mouse?

- a) mouseClicked()
- b) mouseEntered()
- c) mousePressed()
- d) All of the mentioned**

15) Which is the integer constants of TextEvent class?

- a) TEXT\_CHANGED
- b) TEXT\_FORMAT\_CHANGED

c) TEXT\_VALUE\_CHANGED

d) TEXT\_SIZE\_CHANGED

16) MouseEvent is subclass of which of these classes?

a) ComponentEvent

b) ContainerEvent

c) ItemEvent

**d) InputEvent**

17) An event is generated when the internal state of the event source is \_\_\_\_\_

a) Not changed

**b) Changed**

c) Either changed or not

d) None of these.

18) Consider the following output. Find the missing statement in the program.

```
import java.awt.*; import
java.awt.event.*; import
java.applet.*; import
javax.swing.*;
/* <applet code="SimpleKey1" width=300 height=100></applet> */ public
class SimpleKey1 extends JApplet implements KeyListener
{
String msg = ""; int
X = 10, Y = 20;
public void init()
{ addKeyListener(this);
requestFocus();
}
public void keyPressed(KeyEvent ke)
{
showStatus("Key Down");
}
public void keyReleased(KeyEvent ke)
{
showStatus("Key Up"); public void
keyTyped(KeyEvent ke)
{
msg += ke.getKeyChar(); repaint();
}
public void paint(Graphics g)
{
g.drawString(msg, X, Y);
}
```

}

- a) Missing Semicolon
- b) Missing {
- c) **Missing }**
- d) Missing ()

19) Which of the following are correct event handling methods?

- a) **mousePressed(MouseEvent e){ }**
- b) MousePressed(MouseClick e){ }
- c) functionKey(KeyPress k){ }
- d) Added(ContainerEvent e){ }

20) Which methods are used to close the window?

- a) setVisible(false)
- b) windowClosing()
- c) stop()
- d) **Both a and b**

21) To process scroll bar events, you need to implement \_\_\_\_\_ interface.

- a) adjustmentlistener
- b) MouseListener
- c) **AdjustmentListener**
- d) KeyListener

22) KeyEvent is subclass of which of these classes?

- a) ComponentEvent
- b) ContainerEvent
- c) ItemEvent
- d) **InputEvent**

23) \_\_\_\_\_ and \_\_\_\_\_ is a subclass of InputEvent.

- a) **MouseEvent, KeyEvent**
- b) WindowEvent,ItemEvent
- c) MouseMotionEvent,MouseWheelEvent
- d) ActionEvent,AdjustmentEvent

24) \_\_\_\_\_ method returns a value that indicates which modifier key were pressed when the action event is generated.

- a) **getModifiers()**
- b) setModifiers()
- c) getActionCommand()

d)none of these

25) Complete the following signature:

void addTreeExpansionListener(                                   tel)

- a) Treeexpansion listener
- b) **TreeExpansionListener**
- c) TreeListener
- d) treelistener

26) Constants for AdjustmentEvent class are:

- a) BLOCK\_INCREMENT
- b) TRACK
- c) UNIT\_DEVREMENT
- d) **all of these**

27) Which of these events will be generated if we close an applet's window? a)ActionEvent

- b)ComponentEvent
- c)AdjustmentEvent
- d) **WindowEvent**

28) Which of the following is the highest class in the event delegation model?

- a)java.util.EventListener
- b) **java.util.EventObject**
- c) java.awt.AWTEvent
- d) java.awt.event.AWTEvent

29) \_\_\_\_\_ is an object that describes a state change in the source.

- a) **event**
- b) Source
- c) none of the above
- d) all the above

30) Which of these methods can be used to change location of an event?

- a)changePoint()
- b)**translatePoint()**
- c) ChangeCordinates()
- d) translateCordinates()

31) Which of these methods can be used to obtain the coordinates of a mouse?      a)**getPoint()**

- b)getCoordinates()
- c)getMouseXY()
- d)getMouseCoordinates()

32) Which of the following method is invoked when a window is changed from a normal to a minimized state?

- a) **windowIconified()**
- b) windowClosed()
- c)windowDeactivated
- d) windowOpened()

33) Which of these is a superclass of all Adapter classes?

- a)Panel
- b) Applet**
- c) Component
- d) Event

34) Which of the following method does not belongs to WindowListerner interface?

- a) windowActivated
- b) windowReactivated**
- c) windowDeiconified
- d) windowClosed()

35) Which event is generating when checkable menu item is selected or deselected? a)

- KeyEvent
- b) ListEvent
- c) ItemEvent**
- d) MouseEvent

36) Which are two ways to create Java Anonymous inner class?

- a) Class, Interface**
- b) Applet
- c) Panel, Frame
- d)Event

37) The \_\_\_\_\_ method returns a reference to the component that was added to or removed from the container.

- a)getParent()
- b)getComponent( )
- c)getChild( )**
- d)geoReferenced()

38) Inner class can access all the members of outer class including \_\_\_\_\_data members and methods. a)

- public
- b)Protected
- c)friend

**d)private**

- 39) In case of \_\_\_\_\_ we can implement only required methods of any interface. **a)adapter classes**  
 b)Event  
 c)EventObject  
 d)Listener
- 40) What is a listener in context to event handling?  
 a) A listener is a variable that is notified when an event occurs.  
**b) A listener is a object that is notified when an event occurs.**  
 c) A listener is a method that is notified when an event occurs.  
 d) None of the mentioned
- 41) Which of the following are true?  
 a)The event-inheritance model has replaced the event-delegation model.  
 b) The event-inheritance model is more efficient than the event-delegation model.  
**c) The event-delegation model uses event listeners to define the methods of event-handling classes.**  
 d) The event-delegation model uses the handleEvent( ) method to support event handling.
- 42) Which of the following components generate action events?  
**a)Buttons**  
**b)Labels**  
 c)Check boxes  
 d) Windows
- 43) What is the preferred way to handle an object's events in Java 2?  
 a) Override the object's handleEvent( ) method.  
**b) Add one or more event listeners to handle the events.**  
 c) Have the object override its processEvent( ) methods.  
 d) Have the object override its dispatchEvent( ) methods.
- 44) If a class MyWindowAdapter extends WindowAdapter and implements the windowClosing() method.  
 How to register this class ?  
 a) **this.addWindowListener(new MyWindowAdapter());**  
 b) addWindowListener(new MyWindowAdapter());  
 c) this.addListener(new MyWindowAdapter());  
 d) addWindowListener(new MyAdapter());
- 45) In the following code, what is the name of the inner class?

```
public class Periodical
{
 long ISBN;
 public class Book
 {
 public long getISBN()
 {
 return ISBN;
 }
 }
}
```

a) Periodical  
b) book  
c) **Book**  
d) ISBN

46) What is the output of following code?

```
import java.awt.*;
import java.awt.event.*;
import java.applet.*;

/*
<applet code="AdapterDemo" width=300 height=100></applet>
*/

public class AdapterDemo extends Applet
{
 public void
 init()
 {
 addMouseListener(new MyMouseAdapter(this));
 }
}

class MyMouseAdapter extends MouseAdapter
{
 AdapterDemo adapterDemo;
 public MyMouseAdapter(AdapterDemo adapterDemo)
 {
 this.adapterDemo = adapterDemo;
 } // Handle mouse clicked.

 public void mouseClicked(MouseEvent me)
 {
 adapterDemo.showStatus("Mouse clicked");
 }
}
```

}

- a) Mouse pressed
- b) **Mouse clicked**
- c) Mouse dragged
- d) Mouse released

47) Consider following code segment-

```
public void mousePressed(MouseEvent event)
{
 System.out.println(event.getPoint());
}
```

Following code segment output is-

- a) event generated
- b) Print x co-ordinates
- c) Display y co-ordinates
- d) Print value of x and y co-ordinates**

48) A general form, event registration method-

- a) void addTypeListener (TypeListener el)
- b) public void addTypeListener (TypeListener el)**
- c) public TypeListener (TypeListener el)
- d) public void addTypeListener (el)

49) Identify correct methods in the place of blank space:

```
public class Test extends Applet implements _____
{
 String msg="";
 public void init()
 {
 addKeyListener(this);
 }
 public void keyPressed(_____ k)
 {
 showStatus("KeyPressed");
 }
 public void keyReleased(KeyEvent k)
 {
 showStatus("KeyRealeased");
 }
 public void keyTyped(KeyEvent k)
```

```

{
 msg = msg+k.getKeyChar();
 repaint();
}
public void paint(Graphics g)
{
 g.drawString(msg, 20, 40);
}
}

```

- a) KeyListener, KeyEvent**
- b) MouseListener, MouseEvent
- c) ActionListener, ActionEvent
- d) WindowListener, WindowEvent

50) In the Delegation Event Model, a user interface element is able to delegate, the processing of an event.....

- a) class
- b) a separate piece of code**
- c) interface
- d) listener

51) Listeners are created by implementing one or more of the defined by the..... **a) interfaces**

- b) class
- c) listener
- d) handler

52) The isPopupTrigger( ) methods returns-

- a) string
- b) integer
- c) Boolean**
- d) long

53) The example of user interface elements that implement the ItemSelectable interface-

- a) checkbox and checkboxgroup
- b) textfield and textarea
- c) radiobutton and button
- d) Lists and choices**

54) public void removeTypeListener(TypeListener el)

Here **Type** means-

- a) name of the event**
- b) type of listener

- c) name of class
  - d) name of object
- 55) The getActionCommand( ) method returns-
- a) string
  - b) integer
  - c) Boolean
  - d) long
- 56) The getItem( ) method can be used.....
- a) name of the method
  - b) type of listener
  - c) name of class
  - d) to obtain a reference to the item that changed**
- 57) The translatePoint( ) method-
- a) display x and y coordinates
  - b) changes the location of the event**
  - c) name of class
  - d) to obtain a reference to the item that changed
- 58) The WindowEvent class, WINDOW\_DEACTIVATED, integer constants meaning-
- a) This window has lost the focus.**
  - b) Restoring the window to its original size.
  - c) Reducing the window from to minimized.
  - d) Reducing the window from to maximized.
- 59) The WindowEvent class, WINDOW\_ICONIFIED, integer constants meaning-
- a) This window has lost the focus.
  - b) Restoring the window to its original size.
  - c) Reducing the window from to minimized.**
  - d) Reducing the window from to maximized.
- 60) The WindowEvent class, WINDOW\_DEICONIFIED, integer constants meaning-
- a) This window has lost the focus.
  - b) Restoring the window to its original size.**
  - c) Reducing the window from to minimized.
  - d) Reducing the window from to maximized.
- 61) Which are the not types of key events-
- a) KEY\_DOUBLE**
  - b) KEY\_PRESSED
  - c) KEY\_RELEASED
  - d) KEY\_TYPED
- 62) MOUSE\_WHEEL integer constants is belong to \_\_\_\_\_ - event.

- a) MouseMotionEvent
  - b) MouseWheelEvent
  - c) **MouseEvent**
  - d) all of these
- 63) MouseWheelEvent is a subclass of \_\_\_\_\_.
- a) KeyEvent
  - b) MouseMotionEvent
  - c) **MouseEvent**
  - d) MouseWheelEvent
- 64) WindowEvent is a subclass of \_\_\_\_\_.
- a) **ComponentEvent**
  - b) ContainerEvent
  - c) ActionEvent
  - d) AdjustmentEvent
- 65) Which one is not a method belong to ComponentListener Interface?
- a) void componentResized(ComponentEvent ce)
  - b) void componentMoved(ComponentEvent ce)
  - c) **void componentOpened(ComponentEvent ce)**
  - d) void componentHidden(ComponentEvent ce)
- 66) ComponentAdded( ) and componentRemoved( ) are the methods of .....
- a) ComponentListener
  - b) MouseMotionEvent
  - c) **ContainerListener**
  - d) MouseWheelListener
- 67) When a component loses \_\_\_\_\_ focus, **focusLost( )** is called.
- a)
  - b) keyboard
  - c) mouse
  - d) window
  - e) panel
- 68) Which method not use to obtain the coordinates of the mouse-
- a) string getCode()
  - b) int GetKEY()
  - c) **int getKeyCode( )**
  - d) int getCode()
- 69) Which method used to capture ALT, CTRL, META OR SHIFT keys-
- a) **getModifiers( )**
  - b) getMod()

- c) modifiers ( )
- d) getAlt( )

70) Which top-level class provides methods to add and remove keyboard and mouse event listeners-

- a) Container
- b) Applet
- c) Window
- d) Component**

71) Write the correct code at blank space:

```
public class extends Frame implements WindowListener
{
WindowExample()
{
 addWindowListener(this);
 setSize(400,400); setLayout(null);
 setVisible(true);
}
public static void main(String[] args) {
 new WindowExample();
}
```

- a) Frame
- b) Window
- c) WindowExample**
- d) Example

72) Assuming we have a class which implements the ActionListener interface, which method should be used to register this with a Button?

- a) EnterActionListener(\*);
- b) addListener(\*);
- c) ActionListener(\*);
- d)addActionListener(\*);**

73) Which of these interfaces define a method actionPerformed()?

- a) KeyListener
- b) ButtonListener
- c) InputListener
- d) ActionListener**

74) keyPressed() is method of ..... interface.

- a) **KeyListener**
  - b) ButtonListener
  - c) InputListener
  - d) ActionListener
- 75) keyReleased() is method of ..... interface.
- a) ActionListener
  - b) ButtonListener
  - c) InputListener
  - d) KeyListener**
- 76) keyTyped() is method of ..... interface.
- a) ActionListener
  - b) ButtonListener
  - c) InputListener
  - d) KeyListener**
- 77) mouseClicked() is method of ..... interface.
- a) MouseListener**
  - b) ButtonListener
  - c) InputListener
  - d) KeyListener
- 78) mouseEntered() is method of ..... interface.
- a) InputListener
  - b) ButtonListener
  - c) MouseListener**
  - d) KeyListener
- 79) mouseExited() is method of ..... interface.
- a) MouseListener**
  - b) ButtonListener
  - c) InputListener
  - d) KeyListener
- 80) mousePressed() is method of ..... interface.
- a) InputListener
  - b) ButtonListener
  - c) MouseListener**
  - d) KeyListener
- 81) Identify correct general form of MouseClicked( ) method of Mouse Listener interface.
- a) void mouseClicked(me)
  - b) void Clicked(MouseEvent me)

c) **void mouseClicked(MouseEvent me)**

d) void mouseClick(MouseEvent me)

82) Select the method of MouseMotionListener Interface.

a) void mouseClicked(MouseEvent *me*)

b) void mouseEntered(MouseEvent *me*)

c) void mouseExited(MouseEvent *me*)

**d) void mouseMoved(MouseEvent *me*)**

83) Select the method of MouseWheelListener Interface.

a) void mouseClicked(MouseWheelEvent *me*)

b) void mouseEntered(MouseWheelEvent *t me*)

**c) void mouseWheelMoved(MouseWheelEvent *mwe*)**

d) void mouseExited(MouseWheelEvent *me*)

84) Which of these are methods of TextListener Interface?

a) **textValueChanged()**

b) setText()

c) textChanged()

d) getText()

85) Which of these method are used to register a keyboard event Listener ?

a) addMouseListener()

**b) addKeyListner()**

c) KeyListener()

d) addKey()

86) Which of these methods are used to register a mouse motion listener?

**a) addMouseMotionListner()**

b) addMouseListner()

c) addMouseWheelListner()

d) MouseMotionListner()

87) Which of these methods are used to register a Window listener?

a) addMouseMotionListner()

b) ComponentListner()

c) WindowListener()

**d) addWindowListner()**

88) Which source generates adjustment events?

a) **Scroll bar**

b) Checkbox

- c) Radio Button
  - d) List
- 89) WindowActivated() is method of ..... interface.
- a) **WindowListener**
  - b) KeyListener
  - c) AdjustmentListener
  - d) ContainerListener
- 90) windowClosed() is method of ..... interface.
- a) KeyListener
  - b) **WindowListener**
  - c) AdjustmentListener
  - d) ContainerListener
- 91) windowDeactivated() is method of ..... interface.
- a) **WindowListener**
  - b) KeyListener
  - c) AdjustmentListener
  - d) ContainerListener
- 92) windowDeiconified() is method of ..... interface.
- a) **WindowListener**
  - b) KeyListener
  - c) AdjustmentListener
  - d) ContainerListener
- 93) windowGainedFocus() and windowLostFocus() methods are belongs to ..... interface . a)
- WindowListener
  - KeyListener
  - AdjustmentListener
  - d) WindowFocusListener**
- 94) **windowClosed()** is method of ..... interface.
- a) KeyListener
  - b) **WindowListener**
  - c) AdjustmentListener
  - d) ContainerListener
- 95) Identify the class which is not an adapter class?
- a) FocusAdapter
  - b) KeyAdapter
  - c) WindowAdapter

#### d) ItemAdapter

96) Following are the integer constants which does not belong to ComponentEvent class .

- a) COMPONENT\_HIDDEN
- b) COMPONENT\_MOVED
- c) COMPONENT\_RESIZED
- d) **COMPONENT\_ICONIFIED**

97) Identify correct adapter in following code:

```
import java.applet.*; import
java.awt.event.*;
/*
<applet code="AnonymousInnerClassDemo" width=200 height=100> </applet>
*/
public class AnonymousInnerClassDemo extends Applet
{
 public void init()
 {
 addMouseListener(new _____())
 }
 public void mousePressed(MouseEvent me)
 {
 showStatus("Mouse Pressed");
 }
}
```

- a) **MouseAdapter**
- b) MouseMotion Adapter
- c) KeyAdapter
- d) mousepressed

98) An adapter class provides an .....implementation of all methods in an event listener interface.

- a) interface
- b) abstract**
- c) empty
- d) runnable

99) Identify correct name of event:

```
public void adjustmentValueChanged(..... e)
{
```

```
Integer i = e.getValue();
frameLabel1.setText(i.toString());
}
```

- a) ScroolbarEvent
- b) AdjustmentEvent**
- c) ActionEvent
- d)TextAreaEvent

100) Identify correct name of event:

```
public void mouseExited (_____ me)
{
// save coordinates
mouseX = 0; mouseY
= 10; msg = "Mouse
exited.";
repaint();
}
```

- a) InputEvent
- b) MouseMotionEvent
- c) KeyEvent
- d) MouseEvent**

101) Fill correct listener names:

```
public class MouseEvents extends Applet implements
MouseListener, MouseMotionListener
```

```
{
String msg = "";
int mouseX = 0, mouseY = 0; // coordinates of mouse
public void init()
{
 _____(this);
 _____(this); }
...
}
```

- a) addListener, addMouseListener
- b) addMouseMotionListener, addKeyListener
- c) MouseListener , MotionListener
- d) addMouseListener, addMouseMotionListener**

102) Listeners are created by implementing one or more of the interfaces defined by the \_\_\_\_\_ package.

- a) **java.awt.event**
- b) java.util.event
- c) java.lang.event
- d)java.awt.listener

103) Identify the name of method which is not belong to **WindowEvent**.

- a) int getOldState()
- b) int getNewState()
- c) **Window OppositeWindow()**
- d) Window getWindow()

104) In List event source, generates \_\_\_\_\_ events when an item is double-clicked. a)

**action**

- b) item
- c)text
- d>window

105) In List event source, generates \_\_\_\_\_ events when an item is selected or deselected. a) action

- b) item**
- c)text
- d>window

106) In Menu Item, generates \_\_\_\_\_ events when a menu item is selected. a) **action**

- b) item
- c) text
- d>window

107) In Menu Item, generates \_\_\_\_\_ events when a checkable menu item is selected or deselected.

- a) action**
- b) **item**
- c) text
- d) window

108) Identify the correct class name:

```
import java.awt.*;
import java.awt.event.*;
public class _____ extends KeyAdapter
{
 Label l;
 TextArea area;
 Frame f;
```

```

KeyAdapterExample()
{
 f=new Frame("Key Adapter");
 l=new Label();
 l.setBounds(20,50,200,20);
 area=new TextArea();
 area.setBounds(20,80,300, 300);
 area.addKeyListener(this);

 f.add(l);
 f.add(area);
 f.setSize(400,400);
 f.setLayout(null);
 f.setVisible(true);
}

public void keyReleased(KeyEvent e) {
 String text=area.getText();
 String words[]=text.split("\s");
 l.setText("Words: "+words.length+" Characters:"+text.length());
}

public static void main(String[] args)
{
 new KeyAdapterExample();
}
}

a) KeyAdapterExample
b) KeyAdapter
c) KeyExample
d) AdapterExample

```

109) Identify the correct class name:

```

import java.awt.*;
import java.awt.event.*;
public class MouseAdapterExample extends MouseAdapter
{
 Frame f;
 MouseAdapterExample()
 {
 f=new Frame("Mouse Adapter");
 f.addMouseListener(this);
 f.setSize(300,300);
 f.setLayout(null);
 }
}

```

```

 f.setVisible(true);
 }

 public void mouseClicked(MouseEvent e) {
 Graphics g=f.getGraphics();
 g.setColor(Color.BLUE);
 g.fillOval(e.getX(),e.getY(),30,30);
 }

 public static void main(String[] args) {
 new _____();
 }
}

```

- a) mousePressed
- b) MouseAdapterExample**
- c) mouseClicked
- d) MouseAdapter

110) Which of these are integer constants defined in ActionEvent class?

- a) ALT\_MASK
- b) CTRL\_MASK
- c) SHIFT\_MASK
- d) All of the mentioned**

111) When the size of component is changed, \_\_\_\_\_ event is generated.

- a) ComponentEvent**
- b) ContainerEvent
- c) FocusEvent
- d) InputEvent

112) When the component is added or removed ? Which of these events is generated ?

- a) ComponentEvent
- b) ContainerEvent**
- c) FocusEvent
- d) InputEvent

113) FocusEvent is subclass of which of these classes?

- a) ComponentEvent**
- b) ContainerEvent
- c) FocusEvent
- d) InputEvent

114) Match the correct pairs-

- |                                                                                 |                                                                                                                                                  |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| a. getSource( )<br>b. toString ( )<br>c. getID( )<br>d. EventObject(Object src) | i. Determine the type of the event<br>ii. Returns the source of the event<br>iii- Constructor<br>iv- returns the string equivalent of the event. |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

- a) a-ii b-iv c-i d-iii**  
**b) a-i b-iv c-ii d-iii**  
**c) a-iii b-iv c-i d-ii**  
**d) a-iv b-ii c-i d-iii**

115) Match the correct pairs-

- |                                                                                         |                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. getKeyLocation()<br>b. getKeyCode()<br>c. getKeyChar()<br>d. setKeyCode(int keyCode) | i. Set the keyCode value to indicate a physical key.<br>ii. Returns the character associated with the key in this event.<br>iii. Returns the location of the key that originated this key event.<br>iv. Returns the integer keyCode associated with the key in this event. |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- a) a-iii b-iv c-ii d-i**  
**b) a-i b-iv c-ii d-iii**  
**c) a-ii b-iv c-iii d-i**  
**d) a-iv b-iii c-ii d-I**

116) Consider following three statement

- 1) ActionListener Interace defines one method to receive action event
- 2) ItemListener Interface defines one method to recognize when the state of item change..
- 3) MouseListener interface defines mouseMoved() method

- a) Statement 1 and 2 are true**  
**b) Statement 1 and 3 are true**  
**c) Statement 2 and 3 are true**  
**d) All are true**

117) Which of the following are true?

- A) The MouseListener interface defines methods for handling mouse clicks.
- B) The MouseMotionListener interface defines methods for handling mouse clicks.
- C) The MouseClickListener interface defines methods for handling mouse clicks.
- D) The ActionListener interface defines methods for handling the clicking of a button.

- a) Statement A and D true**  
**b) Statement A and C true**  
**c) Statement B and D true**  
**d) Statement C and D true**

118) Which of the following statements are false

- 1) windowlistener define seven method
- 2) mouseMotionListerne define 2 method
- 3) ActionListener Interace defines three method to receive action event
- 4) KeyListener Interface define Three method

- a) Statement 2 is False
- b) Statement 3 is False**
- c) Statement 1 is False
- d) Statement 1 and 4 are False

119) Consider the following code

```
import java.applet.*; import
java.awt.event.*;
/*
<applet code="InnerClassDemo" width=200 height=100></applet>
*/
public class InnerClassDemo extends Applet { public
void init() {
addMouseListener(new MyMouseAdapter());
}
class MyMouseAdapter extends MouseAdapter { public
void mousePressed(MouseEvent me) {
showStatus("Mouse Pressed");
}
}
}
```

- a) output :Mouse Pressed**
- b) Error in code
- c) Syntax error
- d) Error in package

120) Fill in the blanks.

```
import java.applet.*; import
java.awt.event.*;
/*
<applet code="InnerClassDemo" width=200 height=100></applet>
*/
public class InnerClassDemo extends Applet {
public void init() {
_____ (new MyMouseAdapter());
```

```

}
class MyMouseAdapter extends _____
{
public void mousePressed(MouseEvent me) { showStatus("Mouse
Pressed");}
}
}
}
}
```

- a) **addMouseListener, MouseAdapter**
- b) addmouselistener, MouseAdapter
- c) addMouseListener, mouseAdapter
- d) addMouseListener, mouseadapter

121) Fill the proper name of class.

```

import java.awt.*; import
java.awt.event.*; import
java.applet.*;
/*<applet code="AdapterDemo" width=300 height=100> </applet>
*/
public class AdapterDemo extends Applet
{
public void init()
{
addMouseListener(new MyMouseAdapter(this));
}
}
class MyMouseAdapter extends MouseAdapter
{
____ adapterDemo;
public MyMouseAdapter(AdapterDemo adapterDemo)
{
this.adapterDemo = adapterDemo;
}
// Handle mouse clicked.
public void mouseClicked(MouseEvent me)
{
adapterDemo.showStatus("Mouse clicked");
}
}
```

- a) **AdapterDemo**
- b) adapterDemo
- c) adapterdemo
- d) Adapterdemo

122) The following code segment shows that a class MyWindowAdapter extends WindowAdapter and implements the windowClosing() method.

Identify the correct adapter name and event name.

```
class MyWindowAdapter extends _____
{
 public void windowClosing(_____) e)
 {
 System.exit(0);
 }
}
```

- a) **WindowAdapter, WindowEvent**
- b) MyWindowAdapter, WindowEvent
- c) WindowAdapter, windowEvent
- d) WindowEvent, WindowAdapter

123) Identify the correct adapter name and event name.

```
public class MyFocusListener extends _____
{
 public void focusGained(_____) fe)
 {
 Button button = (Button) fe.getSource();
 label.setText(button.getLabel());
 }
}
```

- a) **FocusAdapter, FocusEvent**
- b) focusAdapter, FocusEvent
- c) focusadapter, FocusEvent
- d) FocusAdapter, Focusevent

124) Identify the class which is not adapter class?

- a) KeyAdapter
- b) FocusAdapter
- c) **ItemAdapter**
- d) MouseMotionAdapter

125) Identify the correct event class

```
public void componentRemoved(____e)
{
 displayMessage(" removed from ", e);
}
```

- a) ContainerEvent
- b) ComponentEvent
- c) FocusEvent
- d) WindowEvent

126) Find error in given program

```
import java.awt.*;
import java.awt.event.*;

public class KeyListenerExample extends Frame implements KeyListener { Label MyLabel;
TextArea area;
KeyListenerExample()
{
 MyLabel=new Label();
 MyLabel.setBounds(20,50,100,20);
 area=new TextArea();
 area.setBounds(20,80,300, 300);
 area.addKeyListener(this);
 add(MyLabel);add(area);
 setSize(400,400); setLayout(null);
 setVisible(true);
}

public void keyPressed(KeyEvent e)
{
 MyLabel.setText("Key Pressed");
}

public void keyReleased(KeyEvent e)
{
 MyLabel.setText("Key Released");
}

public static void main(String[] args)
{
 new KeyListenerExample();
}
```

- a) All methods of Interface are not implemented**
- b) Package is wrong**
- c) Code is correct**
- d) Compile time error**

127) What is the output of the following java program?

```

class Outer
{
 void
outerMethod() {
 System.out.println("inside outerMethod");
// Inner class is local to outerMethod()
class Inner
{
 void
innerMethod() {
 System.out.println("inside innerMethod");
}
}
Inner y = new Inner();
y.innerMethod();
}
}
class MethodDemo
{
 public static void
main(String[] args) { Outer x = new
Outer(); x.outerMethod();
}
}

```

- a) inside outerMethod inside innerMethod**
- b) inside  
innerMethod  
inside  
outerMethod**
- c) No  
output**
- d)inside innerMethod**

128) Identify the incorrect Integer constants for WindowEvent.

- a)WINDOW\_ACTIVATED**
- b)WINDOW\_DEACTIVATED**
- c)WINDOW\_LOST\_FOCUS**
- d)WINDOW\_GOT\_FOCUS**

129) Which source generates adjustment events?

- a) **Scrollbar**
  - b) MenuItem
  - c) Button
  - d) List
- 130) Which of these are methods of TextListener Interface?
- a) **textValuechanged()**
  - b) **textvalueChanged()**
  - c) **TextValueChanged()**
  - d) **textValueChanged()**
- 131) Generates \_\_\_\_\_ when the user enters a character.
- a) **TextEvent**
  - b) **KeyEvent**
  - c) **MouseEvent**
  - d) **ComponentEvent**
- 132) Identify the class which is not an adapter class?
- a) MouseAdapter
  - b) ItemAdapter**
  - c) WindowAdapter
  - d) KeyAdapter
- 133) Can outer Java classes access inner class private members?
- a) Yes**
  - b) No
- 134) An \_\_\_\_\_ class listener interface and Event class Listener interface has same name.
- a) Main class
  - b) Adapter Class**
  - c) Event Class
  - d) Inner Class
- 135) An adapter class provides an \_\_\_\_\_ implementation of all methods in an event listener interface.
- a) Complete
  - b) Multiple
  - c) Empty**
  - d) None of above
- 136) Adapter classes are an \_\_\_\_\_ class for receiving various events.
- a) Abstract class**
  - b) Super class
  - c) Derived class

d) Base class

137) Which is the abstract adapter class for receiving keyboard focus events.

- a) ComponentAdapter
- b) KeyAdapter
- c) **FocusAdapter**
- d) MouseAdapter

138) An adapter class provides an empty implementation of all methods in an \_\_\_\_\_

- a) **event listener interface**
- b) KeyListenerInterface
- c) MouseListenerInterface
- d) None of above

139) How many method define in FocusListener interface. a)

- b)
- c) 4
- d) 2**

2  
4

140) How many method define in ContainerListener interface. a)

- 2**
- b) 1
- c) 4
- d) 3

141) Fill in the blank: MouseListener interface

- define.....methods a) 1
- b) 5**
  - c) 4
  - d) 7

142) Fill in the blank: MouseMotionListener interface define.....methods a) 3

- b) 4
- c) 1
- d) 2**

143) WindowEvent is a subclass of

- a) ComponentEvent**
- b) ContainerEvent
- c) KeyEvent
- d) InputEvent

144) Which method used to capture ALT, CTRL, META OR SHIFT keys-

- a) **getModifiers()**
- b) getmodifiers( )
- c) GetModifiers( )
- d) Getmodifiers( )

145) Suppose that you want to have an object eh handle the TextEvent of a TextArea object t. How should you add eh as the event handler for t?

- a) **t.addTextListener(eh);**
- b) eh.addTextListener(t);
- c) addTextListener(eh.t);
- d) addTextListener(t.eh);