Chapter No. 01 Introduction to AWT

Answer the following questions:

- 1. AWT Means?
- a) Abstract Windows Toolkit
- b) Advanced Web Toolkit
- c) Abstract Web Toolkit
- d) Advanced Web Technology
- 2. Which is the immediate super class of Applet?
- a) Container
- b) Component
- c) Frame
- d) Panel
- 3. The setSize() method is defined by this class...
- a) Applet
- b) Component
- c) Frame
- d) Panel
- 4. Which class encapsulates a blank window upon which we can draw?
- a) Applet
- b) Canvas
- c) Window
- d) Frame
- 5. What are the variables defined in 'Dimension' class?
- a) length and width
- b) height and length
- c) height and width
- d) len and wid
- 6. If we want to hide the window, we can use this method...
- a) setVisible()
- b) show()
- c) setHidden()
- d) view()

7. Color class can create object of it using which of the following color values? a) RGB b) RYB c) CMY d) HSB

- 8. The setColor() is the method of which class?
- a) Applet
- b) Graphics
- c) Color
- d) Object
- 9. Which of the following style is not supported by Font class?
- a) Font.UNDERLINE
- b) Font.ITALIC
- c) Font.PLAIN
- d) Font.BOLD
- 10. All the AWT controls are subclasses of which class?
- a) Component
- b) Container
- c) AWTControl
- d) Window
- 11. How you can remove all the controls from the applet?
- a) Using remove() method.
- b) Using removeAll() method.
- c) Using removeAllControls() method.
- d) It is not possible to remove all controls using single method.
- 12. Which of the following is passive AWT control?
- a) Label
- b) Button
- c) Checkbox
- d) TextField
- 13. Which alignment is not supported by Label?
- a) Label.RIGHT
- b) Label.LEFT
- c) Label.CENTER
- d) Label.BASELINE

- 14. How can we create Radio buttons?
- a) Using ButtonGroup class
- b) Using CheckboxGroup class
- c) Using RadioButton class
- d) Using Button class
- 15. How to add the names in choice controls?
- a) At the time of creation itself.
- b) Using addName() method.
- c) Using addItem() method.
- d) Using add() method.
- 16. Multiple selections are allowed in...
- a) Menu
- b) CheckboxGroup
- c) List
- d) Choice
- 17. How can we copy the 'List's contents into 'Choice's contents
- a) This is not possible.
- b) Using copyInto() method of List
- c) Directly assigning List object to Choice object. *
- d) Using copyFrom() method.
- 18. What is default block-increment of Scrollbar?
- a) 10
- b) 5
- c) 1
- d) We can not use block increment in scrollbars.
- 19. The immediate super class of TextArea is...
- a) TextField
- b) TextBox
- c) TextComponent
- d) Component
- 20. Is it possible to change display character of TextField? How?
- a) Not possible.
- b) Yes, by using setChar() method.
- c) Yes, by using setEchoChar() method.
- d) Yes, by using setDisplayChar() method.
- 21. Is it possible to center the text typed in TextField? How?

- a) Not possible.
- b) Yes, by using setAlignment() method.
- c) Yes, by using setPosition() method.
- d) Yes, by putting values in the constructor itself.
- 22. Which method is used to append the text at the end of TextArea?
- a) append()
- b) add()
- c) appendAt()
- d) addAt()
- 23. FlowLayout does not support this value of alignment...
- a) FlowLayout.LEFT
- b) FlowLayout.CENTER
- c) FlowLayout.RIGHT
- d) FlowLayout.BASELINE
- 24. The setLayout() is the method of which class?
- a) Applet
- b) Layout
- c) FlowLayout
- d) Graphics
- 25. BorderLayout does not support this value of alignment...
- a) BorderLayout.WEST
- b) BorderLayout.EAST
- c) BorderLayout NORTH
- d) BorderLayout.MIDDLE
- 26. The correct constructor of Insets() which uses the values is...
- a) Insets(int top, int left, int bottom, int right)
- b) Insets(int bottom, int right, int top, int left)
- c) Insets(int right, int top, int left, int bottom)
- d) Insets(Dimesnion d1, Dimension d2)
- 27. The various controls supported by AWT are
- a. Labels, push buttonss
- b. Checkboxes, choice, list
- c. Scroll bars, text area, text field
- d. All of these
- 28. The concept of the menu bar canbe implemented by using three java classes—
- a. MenuBar
- b. Menu
- c. Menultem

d. All of these 29. The most commonly used layout managers are a. FlowLayout b. BorderLayout c. GridLayout d. CardLayout e. All of these The constructor which the Text Event class defines. a. TextEvent(Object source, int event_type) b. textevent (Object source, int event type) c. textevent (object Source, float event_type) d. textevent (Object source, string event_type) 31. In Java an event is an _____which specifies the change of state in the source. a. Class b. Object c. Int d. String 32. The name of the event classes are a. ActionEvent, ComponentEvent b. ContainerEvent, FocusEvent c. ItemEvent, KeyEvent d. WindowListener, MouseEvent e. TextEvent f. All of these 33. The classes and interfaces defined in AWT are contained within the package. a. java.awt.* b. java.sql.* c. java.io.* d. java.int* 34. Java packages such as _____ support the Event handling

- 35. The general form to set a specific type of layout manager is
- a. void setLayout(LayoutManager Im)
- b. Void setLayout(LayoutManager lm)

mechanism. a. java.util b. java.awt

c. java.awt.event

c. void setLayout(layoutManager lm)

d. Void setLayout(Layoutmanager lm)
36. Some of the event listener interfaces are a. ActionListener, ComponentListener b. ContainerListener, FocusListener c. ItemListener, KeyListener d. WindowListener, MouseListener e. TextListener f. All of these
37. The AWT container is an instance of the class which holds various components and other containers a. Graphics b. Container c. Eventobj d. None of these
 38. A checkbox is a control that consists of a a. Combination of a small box b. A label c. Combination of a large box and a label d. Both a & b
39. Java applets are used to create applications a. Graphical b. User interactive c. Both a & b d. None of these
40. In Java, events are all the activities that occur between
a. The user b. The applications
c. Both a & b
d. None of these
41. AWT meansa. Abstract Window Toolkitb. Abstract Window Toollayoutc. Abstract Withdraw Tools

d. Abstract Window Title

 42. Positions the components into five regions:east, west, north, south, center a. BorderLayout b. CardLayout c. GridLayout d. FlowLayout
43. Arranges the components as a deck of cards such that only one component is visible at a time a. BorderLayout b. CardLayout c. GridLayout d. FlowLayout
44. Arranges the components horizontallya. BorderLayoutb. CardLayoutc. GridLayoutd. FlowLayout
 45. Arranges the componemnts into grid a. BorderLayout b. CardLayout c. GridLayout d. FlowLayout
 46 creates a dropdown list of textual entries a. Choice b. Checkbox c. Textbox d. TextComponent
47. The Component class and MenuComponent class are the which represent the GUI components. a. Subclasses b. Superclasses c. Both a & b d. None of these
48. The Component class is an abstract class and so its are used to create components. a. Subclasses b. Superclasses c. Both a & b d. None of these

 49. The AWT classes can be roughly categorized into the following groups: a. GUI Components b. Layouts c. Graphics Tools d. Event Handlers e. All of these 	
50. Panel is used for components a. Grouping b. Managing c. Deleting d. Modifying	
51. An Applet is a of Panel: a. Subclass b. Superclass c. Both a & b d. None of these	
52. Window is used for windows a. Creating b. Handling c. Modifying d. Both a & b	
 53. The subclasses of Window are a. Dialog b. Frame c. Both a & b d. None of these 	
54. The CardLayout class defines the following constructors: a. CardLayout() // First CardLayout(int hour, int ver) //second	

- b. Cardlayout() // First CardLayout(int hour, int ver) //second
- c. CardLayout() // First Cardlayout(int hor, int var)
- d. CardLayout() // First Cardlayout(int hour, int ver) //second
- 55. A menu bar represents
- a. A list of menus which can be added to the top of a top-level window
- b. A list of menus which can be deleted to the top of a top-level window
- c. A list of menus which can be added to the bottom of a bottom-level window
 - d. None of these

56. Each menu is associated with aa. Checkboxb. Drop-downc. Choiced. None of these	_ list of menu items:
57. The two types of menus which are given asa. Pop-up menusb. Regular menusc. Both a & bd. None of these	s follows:
58. Regular menus are placed at thea menu bar a. Top b. Bottom c. Top-down d. Botttom-up	of the application window within
59. The interface is used to handle a. ContainerListener b. FocusListener c. ActionListener d. WindowListener	le the menu events
60. The text field and text area controls create respectively a. Single-line text b. Multi-line text c. Both a & b d. None of these	a area

The Tour of Swing

- 1. In which package Swing components are defined?
- a) javax.applet.swing
- b) javax.swing
- c) java.javax.swing
- d) javax.java.swing
- 2. The super class of all swing buttons is -
- a) Button
- b) ButtonGroup
- c) JButton
- d) AbstractButton
- 3. Which of the following alignment is not possible for JLabel?
- a) TOP
- b) LEFT
- c) CENTER
- d) LEADING
- 4. Alignment constants of JLabel are the part of -
- a) SwingConstants interface
- b) SwingConstants class
- c) Swing class
- d) Graphics class
- 5. How will you set icon for the Jlabel?
- a) Using Icon class directly
- b) Using setIcon() method
- c) Using makelcon() method
- d) It is not possible to set icon for JLabel
- Swing"s text field is encapsulated by –
- a) Component class
- b) JComponent class
- c) Container class
- d) JTextComponent class
- 7. How to give number of columns for JTextField?
- a) Use setColumns() method
- b) Use the value directly in the constructor
- c) Using applyColumn() method.

- d) We have to use JTextArea class
- 8. What is the return type of getText() method of JButton class?
- a) void
- b) String
- c) Character array
- d) There is no such method
- 9. How will you assign the string and icon both to the JButton?
- a) It is not possible
- b) Use the setTextIcon() method c) Use the setIconText() method
- d) Intialize them directly in the constructor
- 10. Which event is generated when a JButton is pushed?
- a) ItemEvent b) TextEvent c) PushEvent
- d) ActionEvent
- 11. Immediate super class of JCheckBox is –
- a) JComponent
- b) JApplet
- c) JCkeckBoxGroup
- d) JToggleButton
- 12. The constructor JCheckBox(true, "YES") suggests that -
- a) Checkbox is selected and displays the string "YES" on it.
- b) Checkbox is deselected and displays the string "YES" on it.
- c) Checkbox is selected and it shows the tick always on it.
- d) There is no such constructor.
- 13. When JCheckBox is clicked the event is generated.
- a) ItemEvent
- b) ActionEvent
- c) TextEvent
- d) MouseEvent
- 14. How can we create Radio buttons?
- a) Using ButtonGroup class
- b) Using JCheckboxGroup class
- c) Using JRadioButton class
- d) Using JButton class
- 15. How to make the group of Radio buttons?
- a) Using ButtonGroup class

- b) Using JButtonGroup class
- c) Using JRadioButton
- d) Using AbstractButton class
- 16. How to contents of whole vector into the JComboBox?
- a) Use the constructor of JComboBox
- b) Use method addItem()
- c) Use method addVector()
- d) Use method addValues()
- 17. How to prevent the drop-down list of JComboBox?
- a) It is not possible
- b) We can use method preventDropMenu() method
- c) Directly give the value "false" in the constructor
- d) Use setList() method.
- 18. Which method is used to define the tabs in the tabbed pane?
- a) add()
- b) addItem()
- c) addPane()
- d) addTab()
- 19. The scroll bar constants for scroll pane are defined in -
- a) Scrollbar class
- b) ScrollPane class
- c) ScrollPaneConstants class
- d) Component class
- 20. Which of the following constants shows scroll bars always?
- a) HORIZONTAL_SCROLLBAR_ALWAYS
- b) HORIZONTAL_SCROLLBAR_AS_NEEDED
- c) HORIZONTAL_SCROLLBARS
- d) HORIZONTAL_ALWAYS
- 21. JScrollPane is an immediate sub-class of -
- a) JContainer
- b) JApplet
- c) JComponent
- d) ScrollPaneChapter
- 22. Is it possible to add array of objects to trees? How?
- a) Not possible

b) Yes, using its one of the forms of constructorc) Yes, using the add() methodd) Yes, using the addItem() method
23. Which items we can"t directly add to JTree using its constructor?a) Array of objectsb) Vectorc) Hash tabled) Arrays
 24. When tree is expanded, which event is generated? a) ExpansionEvent b) TreeExpansionEvent c) ItemEvent d) ActionEvent
25. Which method is used to translate a mouse click on a specific point of the tree to a tree path? a) translatePoint() b) getLocation() c) getPathForLocation() d) getPath()
26. The TreeNode is – a) A class b) An interface c) A variable d) Nothing
27. The TreeExpansionEvent class is defined in – a) java.awt package b) javax.swing package c) java.awt.event package d) javax.swing.event package
28. TreeExpansionListener interface provides following method – a) getExpanded() b) treeExpanded() c) expanded() d) None of the above

- 29. How to create for Vector elements?
- a) Pass vector as parameter for JTree
- b) Use method addElements() for JTree class.
- c) Use method addVector() method of JComponent class
- d) It is not possible
- 30. Which two parameters are required for JTree constructor to create a tree?
- a) Data array and Row Headings
- b) Data array and Column Headings
- c) Single data element and Column heading

Event Handling Basics

- 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 Answer: d

Explanation: Most of the event to which an applet response is generated by a user. Hence they are in Abstract Window Kit package, 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

Answer: a

Explanation: An event is an object that describes a state change in a source.

- 3. Which of these methods are used to register a keyboard event listener? a) KeyListener()
 - b) addKistener()
 - c) addKeyListener()
 - d) eventKeyboardListener()

Answer: c

Explanation: None.

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

Answer: c

Explanation: None.

- 5. 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

Answer: b

Explanation: A listener is a object that is notified when an event occurs. It has two major requirements first, it must have been registered with one or more

sources to receive notification about specific event types, and secondly it must implement methods to receive and process these notifications.

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

Answer: d

Explanation: None.

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

Answer: a

Explanation: getID() can be used to determine the type of an event.

- 8. Which of these class is super class of all the events?
 - a) EventObject
 - b) EventClass
 - c) ActionEvent
 - d) ItemEvent Answer: a

Explanation: EventObject class is a super class of all the events and is defined in java.util package.

- Which of these events will be notified if scroll bar is manipulated? a) ActionEvent
 - b) ComponentEvent
 - c) AdjustmentEvent
 - d) WindowEvent

Answer: c

Explanation: AdjustmentEvent is generated when a scroll bar is manipulated.

- 10. Which of these events will be generated if we close an applet's window? a)

 ActionEvent
 - b) ComponentEvent
 - c) AdjustmentEvent
 - d) WindowEvent Answer: d

Explanation: WindowEvent is generated when a window is activated, closed, deactivated, deiconfied, iconfied, opened or quit.

- 11. Which of these packages contains all the event handling interfaces? a) java.lang
 - b) java.awt
 - c) java.awt.event
 - d) java.event

Answer: c

Explanation: None.

- 12. Which of these interfaces handles the event when a component is added to a container? a) ComponentListener
 - b) ContainerListener
 - c) FocusListener
 - d) InputListener Answer: b

Explanation: The ContainerListener defines methods to recognize when a component is added to or removed from a container.

- 13. Which of these interfaces define a method actionPerformed()?
 - a) ComponentListener
 - b) ContainerListener
 - c) ActionListener
 - d) InputListener

Answer: c

Explanation: ActionListener defines the actionPerformed() method that is invoked when an adjustment event occurs.

- 14. Which of these interfaces define four methods?
 - a) ComponentListener
 - b) ContainerListener
 - c) ActionListener
 - d) InputListener

Answer: a

Explanation: ComponentListener defines four methods componentResized(), componentMoved(), componentShown() and componentHidden().

- 15. Which of these interfaces define a method itemStateChanged()?
 - a) ComponentListener
 - b) ContainerListener
 - c) ActionListener
 - d) ItemListener

Answer: d

Explanation: None.

- 16. Which of these methods will respond when you click any button by mouse?
 - a) mouseClicked()
 - b) mouseEntered()
 - c) mousePressed()
 - d) all of the mentioned Answer: d

Explanation: when we click a button, first we enter the region of button hence mouseEntered() method responds then we press the button which leads to respond from mouseClicked() and mousePressed().

- 17. Which of these methods will be invoked if a character is entered?
 - a) keyPressed()
 - b) keyReleased()
 - c) keyTyped()
 - d) keyEntered()

Answer: c

Explanation: None.

- 18. Which of these methods is defined in MouseMotionAdapter class?
 - a) mouseDragged()
 - b) mousePressed()
 - c) mouseReleased()
 - d) mouseClicked() Answer: a

Explanation: The MouseMotionAdapter class defines 2 methods – mouseDragged() and mouseMoved.

- 19. Which of these is a superclass of all Adapter classes?
 - a) Applet
 - b) ComponentEvent
 - c) Event
 - d) InputEvent

Answer: a

Explanation: All Adapter classes extend Applet class.

- 1. Which of these package contains classes and interfaces for networking? a) java.io
- b) java.util
- c) java.net
- d) java.network

Answer: c

Explanation: None.

2. Which of these is a protocol for breaking and sending packets to an address across a network? a) TCP/IP

- b) DNS
- c) Socket
- d) Proxy Server

Answer: a

Explanation: TCP/IP – Transfer control protocol/Internet Protocol is used to break data into small packets and send them to an address across a network.

- 3. How many ports of TCP/IP are reserved for specific protocols? a) 10
- b) 1024
- c) 2048
- d) 512

Answer: b

Explanation: None.

- 4. How many bits are in a single IP address?
- a) 8
- b) 16
- c) 32
- d) 64

Answer: c

Explanation: None.

- 5. Which of these is a full form of DNS?
- a) Data Network Service
- b) Data Name Service
- c) Domain Network Service
- d) Domain Name Service

Answer: d

Explanation: None.