



12 MARKS

Abstract Windowing Toolkit (AWT)

Multiple Choice Questions for Online Exam

- Q. 1** Give the abbreviation of AWT ?
(a) Applet Windowing Toolkit
(b) **Abstract Windowing Toolkit**
(c) Absolute Windowing Toolkit
(d) None of the above
- Q. 2** Which is the container that contain title bar and can have MenuBars. It can have other components like button, textfield etc.?
(a) Panel
(b) **Frame**
(c) Window
(d) Container
- Q. 3** Which is a component in AWT that can contain another components like buttons, textfields, labels etc.?
(a) Window
(b) **Container**
(c) Panel
(d) Frame
- Q. 4** AWT is used for GUI programming in java?
(a) **True**
(b) False
- Q. 5** Which class provides many methods for graphics programming?
(a) java.awt
(b) java.Graphics
(c) **java.awt.Graphics**
(d) None of the above
- Q. 6** These two ways are used to create a Frame
By creating the object of Frame class (association)
By extending Frame class (inheritance)
(a) **True**
(b) False
- Q. 7** Which is the container that doesn't contain title bar and MenuBars. It can have other components like button, textfield etc?
(a) Window
(b) Frame
(c) **Panel**
(d) Container
- Q. 8** How many types of controls does AWT supports these controls are subclasses of component?
(a) **7**
(b) 6
(c) 5
(d) 8
- Q. 9** Which are passive controls that do not support any interaction with the user?
(a) Choice
(b) List
(c) **Labels**
(d) Checkbox
- Q. 10** By which method You can set or change the text in a Label ?
(a) **setText()**
(b) getText()
(c) Both A & B
(d) None of the above
- Q. 11** Which class is used to create a pop-up list of items from which the user may choose?
(a) List
(b) **Choice**
(c) Labels
(d) Checkbox
- Q. 12** Which object can be constructed to show any number of choices in the visible window?
(a) Labels
(b) Choice
(c) **List**
(d) Checkbox
- Q. 13** Which is used to store data and partial results, as well as to perform dynamic linking, return values for methods, and dispatch exceptions?
(a) Window
(b) Panel
(c) **Frame**
(d) Container
- Q. 14** The following way is used to create a frame is by creating the object of Frame class?
(a) inheritance
(b) **association**
(c) Both A & B
(d) None of the above
- Q. 15** AWT more powerful components like tables, lists, scroll panes, color chooser, tabbed pane etc.?
(a) **True**
(b) False
- Q. 16** These four methods commonly used in?
(i) public void add(Component c)
(ii) public void setSize(int width,int height)
(iii) public void setLayout(LayoutManager m)
(iv) public void setVisible(boolean)
(a) Graphics class
(b) **Component class**
(c) Both A & B
(d) None of the above

- Q. 17 In Graphics class which method is used to draw a rectangle with the specified width and height?
- (a) `public void drawRect(int x, int y, int width, int height)`
 - (b) `public abstract void fillRect(int x, int y, int width, int height)`
 - (c) `public abstract void drawLine(int x1, int y1, int x2, int y2)`
 - (d) `public abstract void drawOval(int x, int y, int width, int height)`
- Q. 18 Implement the Listener interface and overrides its methods is required to perform in event handling?
- (a) True
 - (b) False
- Q. 19 Public class MenuBar extends _____.
- (a) MenuComponent
 - (b) MenuContainer
 - (c) ComponentMenu
 - (d) MenuBar
- Q. 20 Which of the following is true about AWT and Swing components.
- (a) AWT components create a process where as swing components create a thread
 - (b) AWT components create a thread where as swing components create a process
 - (c) Both AWT and Swing components create a process
 - (d) Both AWT and swing components create a thread
- Q. 21 Panel is defined as _____.
- (a) The Panel class is a concrete subclass of Container.
 - (b) A Panel is a window that does not contain titlebar, menubar and border.
 - (c) Panel is a superclass of Applet.
 - (d) All of the above.
- Q. 22 What is API?
- (a) Application Programming Interchange
 - (b) Application Programming Interaction
 - (c) Application Programming Interface
 - (d) None of these
- Q. 23 What is default layout for Dialog?
- (a) FlowLayout
 - (b) GridLayout
 - (c) CardLayout
 - (d) BorderLayout
- Q. 24 Which method is used to count the number of items in the List.
- (a) `getItem()`
 - (b) `getSelectedItem()`
 - (c) `getItemCount()`
 - (d) `getCount()`
- Q. 25 The correct hierarchy for Panel is _____.
- (a) Component - Container - Window - Panel
 - (b) Component - Container - Applet - Panel
 - (c) Component - Container - Panel
 - (d) Container - Component - Panel
- Q. 26 Which is the correct constructor of GridLayout.
- (a) `GridLayout(int a)`
 - (b) `GridLayout(int num_rows, int num_columns)`
 - (c) `GridLayout(int rows, int cols, int vert)`
 - (d) `GridLayout(int hor)`
- Q. 27 What are the types of DialogBox?
- (a) Modal DialogBox
 - (b) Modal and Modeless DialogBox
 - (c) Modam
 - (d) None of the above.
- Q. 28 In the given constructor what third parameter indicates: `Scrollbar s = new ScrollBar(0,10,20,0,1000);`
- (a) size of thumb
 - (b) minimum value
 - (c) Increment value
 - (d) Initial Value
- Q. 29 Which class is used to represent a single line textbox with password character facility?
- (a) TextField
 - (b) TextArea
 - (c) Label
 - (d) Checkbox
- Q. 30 To set the title to the Frame window _____ method is used.
- (a) `void setTitle(String str)`
 - (b) `void setText(String str)`
 - (c) `void setTitle(String str)`
 - (d) None of the above
- Q. 31 Suppose a Panel is added to a Frame and a Button is added to the Panel. If the Frame's font is set to 12 point Times New Roman, the panel's font is set to 10 points Times New Roman and the Button's font is not set. What font will be used to display the Button's label?
- (a) 12 point Times New Roman
 - (b) 11 point Times New Roman
 - (c) 10 point Times New Roman
 - (d) 9 point Times New Roman
- Q. 32 Which of the following is true about FlowLayout?
- (a) FlowLayout can use multiple rows if the horizontal space in the container is too small to hold the component.
 - (b) FlowLayout is the default layout manager of panel and applet.
 - (c) It is the default layout manager for window.
 - (d) Both A & B.



- Q. 33 Which of the method can be used to output a String in an Applet?
(a) display() (b) print()
(c) drawString() (d) transient()
- Q. 34 _____ positions are the components into 5 regions east, west, south, north, center.
(a) CardLayout (b) BorderLayout
(c) GridLayout (d) FlowLayout
- Q. 35 What is API?
(a) Application Programming Interchange
(b) Application Programming Interaction
(c) Application Programming Interface
(d) None of these
- Q. 36 Panel is defined as _____.
(a) Panel class is a concrete sub-class of container
(b) A Panel is a window that does not contain a title bar, menu bar or border
(c) Panel is the superclass of Applet
(d) All of above
- Q. 37 Which component of AWT provides compact, multichoice, scrolling component?
(a) List (b) Choice
(c) Panel (d) TextArea
- Q. 38 When there is a switching condition like ON or OFF, which control is used of following?
(a) Button (b) RadioButton
(c) ToggleButton (d) TextField
- Q. 39 Which method is used to set password character for a TextField?
(a) setPasswordCharacter()
(b) setEchoChar()
(c) setPassChar()
(d) setEchoCharacter()
- Q. 40 The getContentPane() method is of which class?
(a) JApplet (b) JFrame
(c) JButton (d) None of these
- Q. 41 Which class defines setSize() method?
(a) Frame (b) Applet
(c) Component (d) Panel
- Q. 42 _____ is a swing class that allows to enter a single line of text.
(a) TextField (b) JPasswordField
(c) EditTextField (d) TextArea
- Q. 43 Which Text Component method is used to set a TextComponent to the read-only state?
(a) Editable (b) NonEditable
(c) setEchoChar (d) setEditable
- Q. 44 How would you set the color of graphics context called g to cyan?
(a) g.setColor("cyan");
(b) g.setCurrentColor(cyan);
(c) g.setColor("Color.cyan");
(d) g.setColor(Color.cyan);
- Q. 45 What is use of second parameter in given constructor Lable(String,int)
(a) specifies height of label
(b) specifies width of label in terms of pixel
(c) specifies the alignment of text in label in terms of pixel
(d) specifies width of label
- Q. 46 The setBackground() method is part of which of the following class java.awt package?
(a) Component (b) Applet
(c) Object (d) Graphics
- Q. 47 What does the following line of code do?
TextField tf = new TextField(10);
(a) will set 10 to TextField as its initial text.
(b) Will set the character capacity to 10
(c) Both A & B
(d) None of These
- Q. 48 Frame is a standard window, which is _____ of Window class from AWT hierarchy?
(a) Derived class / Subclass
(b) Base class / Super class
(c) Root class
(d) Family class
- Q. 49 A _____ is a passive AWT control that do not generate any event?
(a) Button (b) RadioButton
(c) Choice (d) Label
- Q. 50 The default layout manager of Frame is _____.
(a) FlowLayout (b) BorderLayout
(c) GridLayout (d) CardLayout
- Q. 51 Which method is used to check the status of checkbox?
(a) getStatus() (b) getState()
(c) isChecked() (d) getChecked()

Q. 52 Which of the following method is used to set a TextComponent to read-only mode?
 (a) Editable() (b) nonEditable()
 (c) setEchoChar() (d) setEditable()

Q. 53 _____ generates action events when an item is double-clicked.
 (a) List (b) Checkbox
 (c) MenuItem (d) TextField

Q. 54 Which of the following does not have its default layout as BorderLayout.
 (a) Frame (b) Dialog
 (c) JApplet (d) All of Above

Q. 55 Which of the following statement about GUI component is wrong?
 (a) swing exists since the version 1.2 of the JDK
 (b) AWT stands for Abstract Window Toolkit
 (c) You cannot place AWT component on swing container.
 (d) The AWT classes are deprecated.

Q. 56 Which of the following package is used for Graphical User Interface?
 (a) java.applet (b) java.awt
 (c) java.awt.image (d) java.io

Q. 57 What are the variables defined in Dimension?
 (a) length and width
 (b) height and length
 (c) height and width
 (d) None of these

Q. 58 Which AWT component is not editable?
 (a) Button (b) TextField
 (c) FlowLayout (d) Label

Q. 59 Current text of Label can be obtained using _____.
 (a) setAlignment() (b) getAlignment()
 (c) getText() (d) setText()

Q. 60 The method _____ places a Menu m into the MenuBar mb.
 (a) mb.addMenuItem(m)
 (b) mb.addItem(m)
 (c) mb.add(m)
 (d) None of these

Q. 61 Which of these Components cannot be added to Frame?
 (a) Label (b) Button
 (c) CheckboxGroup (d) All of above

Q. 62 What is use of second parameter given in Label constructor : Label(String, int)
 (a) Specifies height of label in terms of pixels.
 (b) specifies width of label in terms of pixels.
 (c) specifies the alignment of text in label in terms of pixels.
 (d) Specifies maximum numbers of characters in label.

Q. 63 Which of these classes can be added to any Container class, using the add method defined in Container class?

- (a) Button (b) CheckboxMenuItem
 (c) Menu (d) MenuBar

Q. 64 What is the use of setEchoChar() method?
 (a) to set echo in symbol form
 (b) to set char in symbol form
 (c) Both A & B
 (d) to create password in symbol form

Q. 65 _____ method returns currently selected item in choice.

- (a) getSelectedItem()
 (b) getSelectedElement()
 (c) getSelectedIndex()
 (d) getItem()

Q. 66 Which statement with respect to inner class is true.

- A. It is a way of logically grouping classes that are only used in one place.
 B. It increases encapsulation.
 C. It can lead to more readable and maintainable code.

- (a) Only A statement is true.
 (b) Only B statement is true.
 (c) Only C statement is true.
 (d) All A, B and C are true.

Q. 67 The default layout of Applet is _____.

- (a) GridLayout (b) CardLayout
 (c) FlowLayout (d) BorderLayout

Q. 68 Java Applets are used to create _____ applications.

- (a) Graphical
 (b) user interactive
 (c) Both A & B
 (d) None of these

**Answers**

Q.1 (b)	Q.2 (b)	Q.3 (b)	Q.4 (a)	Q.5 (c)	Q.6 (a)	Q.7 (c)	Q.8 (a)
Q.9 (c)	Q.10 (a)	Q.11 (b)	Q.12 (c)	Q.13 (c)	Q.14 (b)	Q.15 (a)	Q.16 (b)
Q.17 (b)	Q.18 (a)	Q.19 (a)	Q.20 (c)	Q.21 (d)	Q.22 (c)	Q.23 (a)	Q.24 (c)
Q.25 (c)	Q.26 (b)	Q.27 (b)	Q.28 (a)	Q.29 (a)	Q.30 (a)	Q.31 (c)	Q.32 (d)
Q.33 (c)	Q.34 (b)	Q.35 (c)	Q.36 (d)	Q.37 (a)	Q.38 (c)	Q.39 (b)	Q.40 (d)
Q.41 (c)	Q.42 (b)	Q.43 (d)	Q.44 (d)	Q.45 (c)	Q.46 (a)	Q.47 (b)	Q.48 (a)
Q.49 (d)	Q.50 (c)	Q.51 (b)	Q.52 (d)	Q.53 (c)	Q.54 (d)	Q.55 (c)	Q.56 (b)
Q.57 (c)	Q.58 (b)	Q.59 (c)	Q.60 (c)	Q.61 (c)	Q.62 (c)	Q.63 (a)	Q.64 (c)
Q.65 (a)	Q.66 (d)	Q.67 (c)	Q.68 (c)				