



Information Technology

Vision: To Visualize the creation of skilled, proficient IT professionals to meet current challenges.

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Subject :- Advance java

Date :-26\6\2023

Assignment No :-1

Topic Name :- Abstract Windowing Toolkit

Q1. What does AWT stand for in Java?

- a. Abstract Window Toolkit
- b. Advanced Window Technology
- c. Application Widget Toolkit
- d. Automatic Window Tool

Q2. Which package provides AWT classes in Java?

- a. java.awt
- b. java.swing
- c. java.io
- d. java.net

Q3. Which of the following is not a component in AWT?

- a. Button
- b. Checkbox
- c. Table
- d. TextArea

Q4. What is the parent class of all AWT components?

- a. java.awt.Panel
- b. java.awt.Component
- c. java.awt.Container
- d. java.awt.Frame

Q5. Which method is used to add a component to a container in AWT?

- a. add()
- b. setComponent()
- c. addComponent()
- d. setLayout()

Q6. Which method is used to remove a component from a container in AWT?

- a. remove()
- b. deleteComponent()
- c. removeComponent()
- d. destroy()

Which layout manager arranges components in a grid of rows and columns?

- a. FlowLayout
- b. BorderLayout
- c. GridLayout
- d. CardLayout

Which layout manager arranges components in a single row or column?

- a. FlowLayout
- b. BorderLayout
- c. GridLayout
- d. BoxLayout



Which event is generated when a user clicks a button in AWT?

- a. MouseEvent
- b. ActionListener
- c. KeyEvent
- d. WindowEvent

Which event is generated when a user types a key in AWT?

- a. MouseEvent
- b. ActionListener
- c. KeyEvent
- d. WindowEvent

Which event is generated when a window is resized in AWT?

- a. WindowEvent
- b. ComponentEvent
- c. ResizeEvent
- d. ContainerEvent

Which event is generated when a window is closed in AWT?

- a. WindowEvent
- b. ComponentEvent
- c. CloseEvent
- d. ContainerEvent

Which class is used to create a menu bar in AWT?

- a. java.awt.Menu
- b. java.awt.MenuBar
- c. java.awt.MenuItem
- d. java.awt.PopupMenu

Which class is used to create a popup menu in AWT?

- a. java.awt.Menu
- b. java.awt.MenuBar
- c. java.awt.MenuItem
- d. java.awt.PopupMenu

Which class is used to create a menu item in AWT?

- a. java.awt.Menu
- b. java.awt.MenuBar
- c. java.awt.MenuItem
- d. java.awt.PopupMenu

Which class is used to create a file dialog in AWT?

- a. java.awt.Dialog
- b. java.awt.FileDialog
- c. java.awt.Frame
- d. java.awt.Window

Which class is used to create a color dialog in AWT?

- a. java.awt.Dialog
- b. java.awt.ColorDialog
- c. java.awt.Frame
- d. java.awt.Window

Which class is used to create a font dialog in AWT?

- a. java.awt.Dialog
- b. java.awt.FontDialog
- c. java.awt.Frame
- d. java.awt.Window

Which class is used to create a scroll pane in AWT?

- a. java.awt.ScrollPane
- b. java.awt.ScrollBar
- c. java.awt.ScrollPanel
- d. java.awt.ScrollWindow

Which class is used to create a canvas in AWT?

- a. java.awt.Canvas
- b. java.awt.Panel
- c. java.awt.Container
- d. java.awt.Frame

Date of Submission :-

Assign By :- Kalyani Kapde



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Subject :- Advance java

Date :-26\6\2023

Assignment No :-2

Topic Name :- Swing

What is Swing in Java?

- A. A programming language
- B. A type of dance
- C. A graphical user interface (GUI) toolkit
- D. A data structure

Which class is the base class for all Swing components?

- A. java.awt.Component
- B. java.awt.Container
- C. javax.swing.JComponent
- D. javax.swing.JPanel

Which of the following is not a Swing container?

- A. JFrame
- B. JDialog
- C. JButton
- D. JTabbedPane

Which layout manager arranges components in a grid?

- A. BorderLayout
- B. FlowLayout
- C. GridLayout
- D. CardLayout

What is the purpose of the GroupLayout layout manager?

- A. To arrange components in a grid
- B. To arrange components in a circular layout
- C. To arrange components in a nested layout
- D. To arrange components based on their preferred sizes

Which of the following is not a Swing component?

- A. JTextArea
- B. JLabel
- C. JScrollPane
- D. JPanel

Which of the following components can display images?

- A. JTextArea
- B. JTable
- C. JList
- D. JLabel

Which of the following components can be used to select a color?

- A. JSlider
- B. JColorChooser
- C. JSpinner
- D. JCheckBox

Which of the following events is fired when a component gains focus?

- A. mouseClicked
- B. mouseEntered
- C. focusGained
- D. focusLost

Which of the following events is fired when a button is clicked?

- A. mousePressed
- B. mouseReleased
- C. actionPerformed
- D. keyPressed



Which of the following methods is used to add a component to a container?

- A. addComponent()
- B. addContainer()
- C. addComponentToContainer()
- D. add()

Which of the following methods is used to set the size of a component?

- A. setSize()
- B. setPreferredSize()
- C. setBounds()
- D. setMinimumSize()

Which of the following methods is used to set the layout manager of a container?

- A. setLayoutManager ()
- B. setLayout()
- C. setContainerLayout()
- D. setComponentLayout()

Which of the following methods is used to get the selected item from a JComboBox?

- A. getSelectedItem()
- B. getSelectedIndex()
- C. getItemAt()
- D. setSelectedItem()

Which of the following methods is used to set the title of a JFrame?

- A. setTitle()
- B. setLabel()
- C. setText()
- D. setCaption()

Which of the following methods is used to create a new JMenuBar object?

- A. new JMenuBar()
- B. createMenuBar()
- C. makeMenuBar()
- D. getMenuBar()

Which of the following methods is used to add a menu to a JMenuBar object?

- A. addMenu()
- B. createMenu()
- C. makeMenu()
- D. add()

Which of the following methods is used to create a new JMenuItem object?

- A. new JMenuItem()
- B. createMenuItem()
- C. makeMenuItem()
- D. getItem()

Which of the following methods is used to add an ActionListener to a JButton object?

- A. addAction()
- B. addActionListener()
- C. addListener()
- D. addEventHandler()

Which of the following methods is used to display a JOptionPane dialog box?

- A. showMessageDialog()
- B. showInputDialog()
- C. showOptionDialog()
- D. showConfirmDialog()



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Subject :- Advance java

Date :-26\6\2023

Assignment No :-3

Topic Name :-Event Handling

Q.1 _____ package contains all the classes and methods required for Event handling in java.

- (a) java.applet (b) java.awt
(c) java.event (d) java.awt.event

Q.2 What is an event is 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 a 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.

Q. 3 method are used to register a keyboard event listener.

- (a) KeyListenerO (b) addKistenerO
(c) addKeyListenerO (d) eventKeyboardListenerO

Q.4 _____ method are used to register a mouse motion listener.

- (a) addMouseO
(b) addMouseListenerO
(c) addMouseMotionListnerO
(d) eventMouseMotionListenerO

Q.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

Q. 6 In which library event class is defined ?

- (a) java.io (b) java.util
(c) java.lang (d) java.net

Q. 7 Which of these methods can be used to determine the type of event ?

- (a) getSoureeO (b) getEventO
(c) getIDO (d) getEventObjectO



- Q.8 ____ is super class of all the events.
(a) EventObject (b) EventClass
(c) ActionEvent (d) ItemEvent
- Q. 9 If scroll bar is manipulated _____ event will be notified.
(a) ActionEvent (b) ComponentEvent
(c) AdjustmentEvent (d) WindowEvent
- Q.10 if we close an applet's window generated. ____ event will be
(a) ActionEvent (b) ComponentEvent
(c) AdjustmentEvent (d) WindowEvent
- Q. 11 Which of these events is generated when a button is pressed?
(a) ActionEvent (b) KeyEvent
(c) Window Event (d) AdjustmentEvent
- Q. 12 __ method can be used to obtain the command name for invoking ActionEvent object.
(a) getCommand() (b) getActionCommand()
(c) getActionEvent() (d) getActionEventCommand()
- Q. 13 Which of these are integer constants defined in ActionEvent class?
(a) ALT_MASK (b) CTRL_MASK
(c) SHIFT_MASK (d) All of the mentioned
- Q.14. Which of these methods can be used to determine type of Event
(a) getID() (b) getSource()
(c) getEvent() (d) getEventObject()
- Q. 15 ____ method can be used to determine the type of adjustment event.
(a) getType() (b) getEventType()
(c) getAdjustmentType() (d) getEventObjectType()
- Q. 16 __ method can be used to know the degree of adjustment made by the user.
(a) getValue() (b) getAdjustmentType()
(c) getAdjustmentValue() (d) getAdjustmentAmount()
- Q.17. What are the KeyListener Interface? (a) keyPressed (b) keyReleased (c) keyTyped (d) All three.
- Q. 18 Which of these constant value will change when the button at the end of scroll bar was clicked to increase its value?
(a) BLOCK_DECREMENT
(b) BLOCK_INCREMENT
(c) UNIT_DECREMENT
(d) UNIT_INCREMENT
- Q.19 When the size of component is changed, ____ event is generated.
(a) ComponentEvent (b) ContainerEvent
(c) FocusEvent (d) InputEvent
- Q. 20 When the component is added or removed ? Which of these events is generated ?
(a) ComponentEvent (b) ContainerEvent
(c) FocusEvent (d) InputEvent
- Q. 21 ____ method can be used to obtain the reference to the container that generated a ContainerEvent.
(a) getContainerO (b) getContainerCommandO
(c) getActionEventO (d) getContainerEventO



Q.22. Which is the constant used for always providing the vertical scrollbar

- (a) VERTICAL_SCROLLBAR_ALWAYS
- (B) VERTICAL_SCROLLBAR_AS_NEEDED

Ans: b

Q.23. Which is the method used for WindowsClosing Event?

- (a) windowOpened() (b) windowClosed()
- (c) windowClosing() (d) windowDeactivated()

Q.24. ____ event is generated when computer gains or loses input focus.

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

Q.25. FocusEvent is subclass of which of these classes?

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

Q.26. ____ can be used to know the type of focus change.

- (a) typeFocus() (b) typeEventFocus()
- (c) isTemporary() (d) isPermanent()

Q.27. ____ is superclass of Container Event class.

- (a) WindowEvent (b) ComponentEvent
- (c) ItemEvent (d) InputEvent

Q.28. Which of the following method can be used to obtain the coordinates of a mouse?

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

Q.29. ____ method can be used to change location of an event.

- (a) ChangePoint() (b) TranslatePoint()
- (c) ChangeCoordinates() (d) TranslateCoordinates()

TranslateCoordinates()

Q.30. Which of the following is integer constants of TextEvent class?

- (a) TEXT_CHANGED
- (b) TEXT_FORMAT_CHANGED
- (c) TEXT_VALUE_CHANGED
- (d) TEXT_SIZE_CHANGED

Q. 31. ____ is used to obtain the object that generated a Window Event.

- (a) getMethod() (b) getWindow()
- (c) getWindowEvent() (d) getWindowObject()

Q.32. MouseEvent is subclass of which of these classes?

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

Q.33. ____ method is used to get x coordinate of the mouse.

- (a) getXO (b) getXCoordinateO
- (c) getCoordinateXO (d) getPointXO

Q.34. Which of these are constants defined in WindowEvent class?

- (a) WINDOW_ACTIVATED
- (b) WINDOW_CLOSED
- (c) WINDOW_DEICONIFIED
- (d) All of the mentioned

Q. 35. ____ is superclass of Window Event class.

- (a) WindowEvent (b) ComponentEvent
- (c) ItemEvent (d) InputEvent

Q.36. Which of these packages contains all the event handling interfaces?

- (a) java.lang (b) java.awt
- (c) java.awt.event (d) java.event



Q.37 When a component is added to a container which of these interfaces handles the event?

- (a) ComponentListener (b) ContainerListener
(c) FocusListener (d) InputListener

Q. 38 ___ interface define a method actionPerformed().

- (a) ComponentListener (b) ContainerListener
(c) ActionListener (d) InputListener

Q.39.Which method is used to set an icon to an Label?

- (a) setIcon() (b)setImage()
(c) getImage() (d)setIconImage()

Q. 40 __ interfaces define a method itemStateChanged()

- (a) ComponentListner (b)ContainerListener
(c) ActionListener (d) ItemListener

Q.41 Which method from the following methods will respond when you click any button by mouse?

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

Q. 42 ___ methods will be invoked if a character is entered.

- (a) keyPressed() (b) keyReleased()
(c) keyTyped() (d) keyEntered()

Q.43 ___ methods is defined in MouseMotionAdapter class.

- (a) mouseDragged() (b) mousePressed()
(c) mouseReleased() (d)mouseClicked()

Q.44.Which method is used to have rollover icon?

- (a)setDisabledIcon() (b)setDisabled()
(c) setRollover() (d)setRolloverIcon()

Q.45 _____ is the superclass of all Adapter classes.

- (a) Applet (b) ComponentEvent
(c) Event (d) InputEvent

Q.46 In Java, events are all the activities that occur between:

- (a)The user (b) The application
(c) Both (a) and (b) (d) None of the above

Q.47 EventObject class belongs to:

- (a) java.util (b) java.awt
(c) java.lang (d) java.sql

Q.48 The Component class is an abstract class and so its _____ are used to create components.

- (a) Subclasses (b)Superclasses
(c)Both (a) and (b) (d)None of these.

Q.49 The AWT classes can be roughly categorized into the following groups:

- (a)GUI component (b)Layouts
(c) Graphics tools (d)All of these

Q.50 Window is used for _____ windows.

- (a)Creating (b) Handling
(c) Modifying (d) Both (a) and (b)

Q.51 The _____ interface is used to handle the menu events.

- (a) ContainerListener (b) FocusListener
(c) ActionListener (d) WindowListner

Q.52 The constructor that is defined by the Text Event class is:

- (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)

Q.53 The name of the event classes are:

- (a) ActionEvent, ComponentEvent
(b) ContainerEvent, FocusEvent
(c) ItemEvevt, KeyEvent



(d) All of these

Q.54 Java packages such as _____ support the Event handling mechanism.

- (a) Java.util (b) Java.awt
(c) Java.awt.event (d) All of these

Q. 55 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.

Q. 56 The _____ interface handles list events:

- (a) ContainerListener (b) ItemListener
(c) FocusListener (d) ActionListener

Q. 57 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 handleEvent() method to support event handling.

Q. 58 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

Q. 59 When two or more objects are added as listeners for the same event, which listener is first invoked to handle the event?

- (a) The first object that was added as listener.
(b) The last object that was added as listener.
(c) There is no way to determine which listener will be invoked first.
(d) It is impossible to have more than one listener for a given event.

Q. 60 Which of the following are true?

- (a) A TextField object may generate an ActionEvent.
(b) A Button object may generate an ActionEvent.
(c) A MenuItem object may generate an ActionEvent.
(d) All of above

Q. 61 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 ActionListener interface defines methods for handling the clicking of a button.
(d) Option (a) and (c)

Q. 62 Suppose that you want to have an object "eh" to handle the TextEvent of a TextArea object. How should you add eh as the event handler to it ?

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

Q. 63 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.

Q. 64 Which of the following are true?

- (a) A component may handle its own events by adding itself as an event listener.
(b) A component may handle its own events by overriding its event-dispatching method.
(c) A component may not handle its own events.



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Subject :- Advance java

Date :-26\6\2023

Assignment No :-4

Topic Name :-Networking Basics

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

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

- a) TCIP/IP
- b) DNS
- c) Socket
- d) Proxy Server

3. How many ports of TCP/IP are reserved for specific protocols?

- a) 10
- b) 1024
- c) 2048
- d) 512

4. How many bits are in a single IP address?

- a) 8
- b) 16
- c) 32
- d) 64

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

6. Which of these class is used to encapsulate IP address and DNS?

a) DatagramPacket

b) URL

c) InetAddress

d) ContentHandler

7. What is the output of this program?

```
1. import java.net.*;
2. class networking {
3.     public static void
main(String[] args) throws
UnknownHostException {
4.         InetAddress obj1 =
InetAddress.getByName("sanfou
ndary.com");
5.         InetAddress obj2 =
InetAddress.getByName("sanfou
ndary.com");
6.         boolean x =
obj1.equals(obj2);
7.
System.out.print(x);
8.     }
9. }
```

a) 0

b) 1

c) true

d) false

8. What is the output of this program?

```
1. import java.net.*;
2. class networking {
3.     public static void
main(String[] args) throws
UnknownHostException {
4.         InetAddress obj1 =
InetAddress.getByName("cisco.
com");
5.         InetAddress obj2 =
InetAddress.getByName("sanfou
ndary.com");
6.         boolean x =
obj1.equals(obj2);
7.
System.out.print(x);
8.     }
9. }
```

a) 0

b) 1

c) true

d) false

9. What is the output of this program?

```
1. import java.io.*;
2. import java.net.*;
3. public class URLLDemo {
4.     public static void
main(String[] args) {
5.         try {
6.             URL url=new
URL("http://www.sanfoundry.co
m/java-mcq");
```



```
7.
System.out.println("Protocol:
"+url.getProtocol());
8.
System.out.println("Host
Name: "+url.getHost());
9.
System.out.println("Port
Number: "+url.getPort());
10.     } catch(Exception
e){System.out.println(e);}
11.     }
12. }
```

- a) Protocol: http
- b) Host Name: www.sanfoundry.com
- c) Port Number: -1
- d) all above mentioned

10. What is the output of this program?

```
1.     import java.net.*;
2.     class networking {
3.         public static void
main(String[] args) throws
UnknownHostException {
4.             InetAddress obj1 =
InetAddress.getByName("cisco.
com");
5.
System.out.print(obj1.getHost
Name());
6.         }
7.     }
```

- a) cisco
- b) cisco.com
- c) www.cisco.com
- d) None of the mentioned



Which class is used to create servers that listen for either local client or remote client programs?

- a. ServerSockets
- b. httpServer
- c. httpResponse
- d. None of the above

Answer Explanation

4) Which constructor of DatagramSocket class is used to creates a datagram socket and binds it with the given Port Number?

- a. DatagramSocket(int port)
- b. DatagramSocket(int port, InetAddress address)
- c. DatagramSocket()
- d. None of the above

Answer Explanation

5) Which methods are commonly used in ServerSocket class?

- a. public OutputStream getOutputStream()
- b. public Socket accept()
- c. public synchronized void close()
- d. None of the above



Answer

Explanation

6) Which classes are used for connection-less socket programming?

- a. DatagramSocket
- b. DatagramPacket
- c. Both A & B
- d. None of the above

7) Which method of URL class represents a URL and it has complete set of methods to manipulate URL in Java?

- a. java.net.URL
- b. java.net.URLConnection
- c. Both A & B
- d. None of the above

8) Which class is used to create servers that listen for either local client or remote client programs?

- a. ServerSockets
- b. httpServer
- c. httpResponse
- d. None of the above



9) Which package provides core functionality?

- a. java.net
- b. java.rmi
- c. java.lang
- d. java.math

The DatagramSocket and DatagramPacket classes are not used for connection-less socket programming.

- a. True
- b. False

Which class creates a TCP server socket, bound to the specified port?

- (a) Socket
- (b) InetAddress
- (c) ServerSocket
- (d) DatagramSocket

Which class implements a connectionless packet delivery service.

- (a) ServerSocket
- (b) DatagramSocket
- (c) InetAddress
- (d) DatagramPacket



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Subject :- Advance java

Date :-26\6\2023

Assignment No :-5

Topic Name :-Interacting with database

What are the major components of the JDBC?

- DriverManager, Driver, Connection, Statement, and ResultSet
- DriverManager, Driver, Connection, and Statement
- DriverManager, Statement, and ResultSet
- DriverManager, Connection, Statement, and ResultSet

Select the packages in which JDBC classes are defined?

- jdbc and javax.jdbc
- rdb and javax.rdb
- jdbc and java.jdbc.sql
- sql and javax.sql

3) Thin driver is also known as?



- a. Type 3 Driver
- b. Type-2 Driver
- c. Type-4 Driver
- d. Type-1 Driver

4) What is the correct sequence to create a database connection?

- i. Import JDBC packages.
- ii. Open a connection to the database.
- iii. Load and register the JDBC driver.
- iv. Execute the statement object and return a query resultset.
- v. Create a statement object to perform a query.
- vi. Close the resultset and statement objects.
- vii. Process the resultset.
- viii. Close the connection.

- a. i, ii, iii, v, iv, vii, viii, vi
- b. i, iii, ii, v, iv, vii, vi, viii
- c. ii, i, iii, iv, viii, vii, v, vi
- d. i, iii, ii, iv, v, vi, vii, viii

5) Which of the following method is used to perform DML statements in JDBC?

- a. executeResult()



- b. `executeQuery()`
- c. `executeUpdate()`
- d. `execute()`

6) How many transaction isolation levels provide the JDBC through the Connection interface?

- a. 3
- b. 4
- c. 7
- d. 2

7) Which of the following method is static and synchronized in JDBC API?

- a. `getConnection()`
- b. `prepareCall()`
- c. `executeUpdate()`
- d. `executeQuery()`

8) Which methods are required to load a database driver in JDBC?

- a. `getConnection()`
- b. `registerDriver()`
- c. `forName()`
- d. Both b and c

9) Parameterized queries can be executed by?



- a. ParameterizedStatement
- b. PreparedStatement
- c. CallableStatement and Parameterized Statement
- d. All kinds of Statements

10) Which of the following is not a valid statement in JDBC?

- a. Statement
- b. PreparedStatement
- c. QueryStatement
- d. CallableStatement

11) Identify the isolation level that prevents the dirty in the JDBC Connection class?

- a. TRANSACTION_READABLE_READ
- b. TRANSACTION_READ_COMMITTED
- c. TRANSACTION_READ_UNCOMMITTED
- d. TRANSACTION_NONE

12) What does setAutoCommit(false) do?

- a. It will not commit transactions automatically after each query.
- b. It explicitly commits the transaction.
- c. It never commits the transactions.
- d. It does not commit transaction automatically after each query.

13) Stored procedure can be called by using the ????.?



- a. CallableStatement
- b. Statement
- c. CalledStatement
- d. PreparedStatement

14) What should be the correct order to close the database resource?What should be the correct order to close the database resource?

- a. Connection, Statements, and then ResultSet
- b. ResultSet, Connection, and then Statements
- c. Statements, ResultSet, and then Connection
- d. ResultSet, Statements, and then Connection

15) A good way to debug JDBC-related problems is to enable???..?

- a. JDBC tracing
- b. Exception handling
- c. Both a and b
- d. Only b

16) Which JDBC driver can be used in servlet and applet both?

- a. Type 3
- b. Type 4
- c. Type 3 and Type 2
- d. Type 3 and Type 4



17) JDBC-ODBC driver is also known as?

- a. Type 4
- b. Type 3
- c. Type 1
- d. Type 2

18) Which of the following driver is the fastest one?

- a. JDBC-ODBC Bridge Driver
- b. Native API Partly Java Driver
- c. Network Protocol Driver
- d. JDBC Net Pure Java Driver

19) Which of the following is not a type of ResultSet object?

- a. TYPE_FORWARD_ONLY
- b. CONCUR_WRITE_ONLY
- c. TYPE_SCROLL_INSENSITIVE
- d. TYPE_SCROLL_SENSITIVE

20) What is JDBC Savepoint?

- a. An intermediate or checkpoint in a transaction
- b. A point where we can store queries
- c. A point where the JDBC application starts execution
- d. A memory where we can store transaction



21) How many stages are used by Java programmers while using JDBC in their programs?

- a. 3
- b. 2
- c. 5
- d. 6

22) Which of the following is the correct way to register a JdbcOdbcDriver?

- a. `jdbc.odbc.JdbcOdbcDriver obj = new sun.jdbc.odbc.JdbcOdbcDriver();`
- b. `odbc.JdbcOdbcDriver obj = new sun.odbc.JdbcOdbcDriver();`
- c. `jdbc.JdbcOdbcDriver obj = new sun.jdbc.JdbcOdbcDriver();`
- d. `jdbc.odbc.JdbcOdbc obj = new sun.jdbc.odbc.JdbcOdbc();`

23) How many ways to register a driver?

- a. 2
- b. 3
- c. 4
- d. 5

24) Identify the DSN in the following statement:

1. `DriverManager.getConnection("jdbc:odbc:oradsn", "scott", "tiger")`
- a. jdbc
 - b. odbc
 - c. scott



d. oradsn

25) Which statement is correct if we want to connect the Oracle database using the thin driver provided by Oracle Corp.?

- a. `getConnection("jdbc::thin@localhost:1521:oracle", "scott", "tiger");`
- b. `getConnection("jdbc:thin@localhost:1521:oracle", "scott", "tiger");`
- c. `getConnection("jdbc::thin@localhost:1522:oracle", "scott", "tiger");`
- d. `getConnection("jdbc::oracle@localhost:1521:thin", "scott", "tiger");`

26) What are the types of ResultSet in JDBC?

- a. Forward ResultSet
- b. Scrollable ResultSet
- c. Only a
- d. Both a and b

27) What is blob in the following statement?

1. `create table profilepic(photo blob);`
- a. Variable
 - b. Object
 - c. Data type
 - d. Keyword

28) Which data type is used to store files in the database table?

- a. BLOB



- b. CLOB
- c. File
- d. Both a and b

29) DatabaseMetaData interface is used to get?????..?

- a. Comprehensive information about the database as a whole.
- b. Comprehensive information about the table as a whole.
- c. Comprehensive information about the column as a whole.
- d. Both b and c

30) Which of the following driver converts the JDBC calls into database-specific calls?

- a. JDBC-ODBC Bridge Driver (Type 1)
- b. Native API-partly Java Driver (Type 2)
- c. Net Protocol-pure Java Driver (Type 3)
- d. Native Protocol-pure Java Driver (Type 4)

31) Are ResultSets updateable?

- a. Yes, but only if we call the method openCursor() on the ResultSet and if the driver and database support this option.
- b. Yes, but only if we indicate a concurrency strategy when executing the statement, and if the driver and database support this option.
- c. Yes, but only if the ResultSet is an object of class Updatable ResultSet and if the driver and database support this option.



d. No, ResultSets are never updateable. We must explicitly execute a DML statement to change the data in the underlying database.

32) Which of the following interface provides the commit() and rollback() methods?

- a. Statement Interface
- b. ResultSet Interface
- c. Connection Interface
- d. RowSet Interface

How many statement objects can be created using a Connection?

- a. 2
- b. 1
- c. 3
- d. Multiple

34) JDBC API supports _____ and _____ architecture model for accessing the database.

- a. Two-tier
- b. Three-tier
- c. Both a and b
- d. Only b



35) Which statement(s) is/ are true about transactions?

i. A transaction is a set of one or more SQL statements that make up a logical unit of work.

ii. A transaction ends with either a commit or a rollback, depending on whether there are any problems with data consistency or data concurrency.

iii. A lock is a mechanism that allows two transactions from manipulating the same data at the same time.

iv. To avoid conflicts during a transaction, a DBMS uses locks, mechanisms for blocking access by others to the data that is being accessed by the transaction.

- a. Only i and ii
- b. Only i and iii
- c. Only i, ii, and iv
- d. All the above