

# 5th Sem

## Advance Java MCQ Book for MSBTE

By Apni University

5th Sem

# Preface

The importance of **Advance Java** is well known in various engineering fields. Overwhelming response to our last year **exam sutra** series inspired us to create this book. This book is structure to cover the key aspects of the subject **Advance Java**.

All the questions in the book are very important for the upcoming MSBTE summer 2020 exam. All care has been taken to make students comfortable in understanding the basic concepts of the subject.

The most important part of this kit is, we are not only providing the books but the exams too at three different levels (basic, intermediate & advanced). The students only need to study the book and co-operate us till exam.

We wish to express our profound thanks to all those who helped in making this book realty. Much needed moral support and encouragement is provided on numerous occasions by our whole family. We wish to thank the entire team of **Apni University** who has taken immense pain to get this book in time with this quality.

Any suggestion for the improvement of the books will be acknowledged and well appreciated.

## **Chapter 1: (Abstract Windowing Toolkit)**

### **Question**

---

Give the Abbreviation of AWT:

- a. Applet windowing Toolkit
- b. **Abstract windowing toolkit**
- c. Absolute windowing toolkit
- d. None of these

### **Question**

---

Which is a component in AWT that can contain another components like buttons, testfields, labels etc?

- a. Window
- b. **Container**
- c. Panel
- d. Frame

### **Question**

---

How many types of controls does AWT support?

- a. 7
- b. 6

- c. 5
- d. 8

## Question

---

Which class provides many methods for graphics programming?

- a. Java.awt
- b. Java.graphics
- c. Java.awt.graphics
- d. None of these

## Question

---

Which is the container that doesn't contain title bar and menu bars. It can have other components like button, text field etc?

- a. Window
- b. Frame
- c. Panel
- d. Container

## Question

---

Which object can be constructed to show any number of choices in the visible window?

- a. Choice

- b. Menu
- c. List
- d. Checkbox

### Question

---

By which method we can set or change the text in a label in AWT?

- a. **setText()**
- b. **getText()**
- c. **addText()**
- d. all of these

### Question

---

on which side applet always executed?

- a. Server side
- b. **Client side**

### Question

---

Which method of the applet class displays the result of applet code on screen?

- a. Run() method
- b. **Paint() method**
- c. drawstring() method
- d. main() method

## Question

---

Applet can be embedded in \_\_\_\_\_

- a. HTML document
- b. Word document
- c. Gif file
- d. Rtf file

## Question

---

Which of the following is true about applet?

- a. Applets do not have a main() method.
- b. Applets must run under applet viewer or web browser
- c. The user I/O is not performed using java's stream I/O class
- d. All of these

## Question

---

Executable applet is \_\_\_\_\_

- a. .applet file
- b. .java html
- c. java file
- d. .class file

## Question

---

Which of the following is used to interpret and execute Java Applet Classes Hosted by HTML?

- a. Applet Viewer
- b. Applet Screen
- c. Applet watcher
- d. Applet show

## Question

---

Java applet are used to create \_\_\_\_\_ applications

- a. Graphical
- b. User interactive
- c. Both a & b
- d. None of the above

## Question

---

Which of these functions is called to display the output of an applet?

- a. Display()
- b. Paint()
- c. displayApplet()
- d. show()

## Question

---

Which of these methods is a part of Abstract Window Toolkit ( AWT )?

- a. Display()
- b. Paint()
- c. Show()
- d. All of these

## Question

---

Which object can be constructed to show any number of choices in the visible window?

- a. Labels
- b. Choice
- c. List
- d. Checkbox

## Question

---

Which of the following class is derived from the container class?

- a. Component
- b. Panel
- c. Menu component
- d. List

## Question

---

When we invoke `repaint()` for a `java.awt.Component` object, the AWT invokes the method:

- a. `Draw()`
- b. `Update()`
- c. `Show()`
- d. `Paint()`

## Question

---

Which method executes only once ?

- a. `Start()`
- b. `Stop()`
- c. `Init()`
- d. `Destroy()`

## Question

---

What does the following line of code do?

```
TextField text = new TextField(20);
```

- a. Creates text object that can hold 20 rows of text
- b. `Creates text object that can hold 20 columns of text`
- c. Creates the object text and initializes it with the value 20
- d. This is invalid code

## Question

---

Which of these classes can be added to any container class, using the add method defined in the container class?

- a. Button
- b. checkboxMenuItem
- c. menu
- d. menubar

## Question

---

which of the following methods can be used to change the size of a java.awt.component object?

- a. Dimension()
- b. Setsize()
- c. Area()
- d. Size()

## Question

---

Which of the following methods can be used to remove a java.awt.component object from the display()?

- a. Disappear()
- b. Delete()
- c. Remove()

d. Hide()

## Question

---

These two ways are used to create a Frame

1. By creating the object of Frame class ( association )
  2. By extending frame class ( inheritance )
- 
- a. True
  - b. False

## Question

---

The title of the frame can be set in AWT using the method.

- a. setHeading
- b. setTitle
- c. Create Title
- d. setTitle

## Question

---

which are passive controls that do not support any interaction with the user?

- a. Choice

- b. List
- c. Labels
- d. Checkbox

### Question

---

How many ways can we align the label in a container?

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

### Question

---

By which method we can set or change the text in an Label In AWT?

- a. setText()
- b. getText()
- c. addText()
- d. all of these

### Question

---

The various controls supported by AWT are:

- a. Labels, push buttons
- b. Checkbxes, choice lists

- c. Scrollbars, test fields, text area
- d. All of these

### Question

---

Which layout manager places components in one of the five regions : north, south , east , west and center?

- a. Absolute layout
- b. Grid layout
- c. Border layout
- d. Flow layout

### Question

---

Arranges the components horizontally:

- a. Border layout
- b. Card layout
- c. Grid layout
- d. Flow layout

### Question

---

The most commonly used layout managers are \_\_\_\_\_.

- a. Flow layout
- b. Border layout

- c. Grid layout
- d. All of these

### Question

---

Default layout manager for subclasses of window is \_\_\_\_\_

- a. Card layout
- b. Gridbag layout
- c. Frame
- d. Border layout

### Question

---

Each menu is associated with a \_\_\_\_\_ list of menu items.

- a. Checkbox
- b. Drop-down
- c. Choice
- d. None of these

### Question

---

Which class can be used to represent a checkbox with a textual label that can appear in a menu?

- a. Menu bar
- b. MenuItem

- c. CheckboxMenuItem
- d. Menu

## Question

---

Which abstract class is the super class of all menu related classes?

- a. MenuComponent
- b. MenuBar
- c. MenuItem
- d. CheckBoxMenuItem

## Question

---

Menu items are added to \_\_\_\_\_

- a. Menus
- b. Menubar
- c. Frame
- d. Both a & b

## Question

---

Dialog box does not have minimize and maximize button

- a. True
- b. False

## Question

---

A dialog box is referred to as modeless if the user does not have to close it in order to continue using the application that owns the dialog box.

- a. True
- b. False

## Question

---

The \_\_\_\_\_ class displays a dialog window from which the user can select a file.

- a. Dialog
- b. Filedialog
- c. File
- d. None of these

## Chapter 2: Swings

### Question

---

Pluggable look and feel and lightweight components are the features supported by \_\_\_\_\_

- a. Swing
- b. AWT
- c. Core java
- d. None of these

### Question

---

Swing is based on \_\_\_\_\_ architecture

- a. Client server
- b. Model view controller
- c. layered
- d. None of these

### Question

---

Swing is not a part of JFC that is used to create GUI application.

- a. True

b. False

## Question

---

The java foundation classes ( JFC ) is a set of GUI components which simplify the development of desktop applications.

a. True

b. False

## Question

---

Following letter used a prefix to swing component.

a. A

b. S

c. G

d. J

## Question

---

\_\_\_\_\_ is one of the features of object oriented programming that allows the creation of hierarchical classifications.

a. Polymorphism

b. Class

- c. Inheritance
- d. Object

### Question

---

In swing JButton class is derived from \_\_\_\_\_

- a. AbstractButton
- b. JToggleButton
- c. JComponent
- d. None of these

### Question

---

The JTextComponent derives two components JTextField and \_\_\_\_\_

- a. JComboBox
- b. JTextArea
- c. JSlider
- d. All of the above

### Question

---

In swing class hierarchy the class present at the root is \_\_\_\_

- a. Component
- b. Window
- c. Container

d. Object

## Question

---

\_\_\_\_\_ pane can be used to add component to container.

- a. Glsass
- b. Content
- c. Container
- d. All of the above

## Question

---

To represent icon file in swing label, we use

- a. Setimg
- b. setIcon
- c. serLabelIcon
- d. none of this

## Question

---

which of the following component allows multiple selection?

- a. JList
- b. JComboBox

- c. JLabel
- d. All of the above

## Question

---

The subclass of JToggleButton is \_\_\_\_\_

- a. JButton
- b. JCheckBox
- c. JRadioButton
- d. Both b & c

## Question

---

The swing component classes that are used in encapsulates a mutually exclusive set of buttons?

- a. Abstractbutton
- b. **ButtonGroup**
- c. JButton
- d. ImageIcon

## Question

---

Which method of the component class is used to set the position and size of a component?

- a. setPosition

- b. setBounds
- c. setSize
- d. none of these

## Question

---

select the correct option

- 1. canvas is a component
  - 2. scrollpane is a container
- 
- a. 1 is true and 2 is false
  - b. 1 is false and 2 is true
  - c. 1 & 2 both are false
  - d. 1 & 2 both are true

## Question

---

The difference between scrollbar and scrollpane is \_\_\_\_\_

- a. Scrollbar is component and scrollpane is container
- b. Scrollbar is container and scrollpane is component
- c. Scrollbar and scrollpane both are components and not containers
- d. Scrollbar and scrollpane both are containers and not components

## Question

---

Frame class extends window

- a. True
- b. False

### Question

---

Which is the container class?

- a. Window
- b. Frame
- c. Dialog
- d. All of the above

### Question

---

Following is uneditable control

- a. Button
- b. Textfield
- c. Label
- d. List

### Question

---

Jpanel and Applet use \_\_\_\_\_ as their default layout.

- a. Flowlayout
- b. Gridlayout
- c. Border layout

- d. Gridbag layout

## Question

---

MVC stands for \_\_\_\_

- a. Model version control
- b. Model view controller
- c. Mini view controller
- d. Major view controller

## Question

---

MVC architecture is used by swing \_\_\_\_

- a. True
- b. False

## Question

---

In swing \_\_\_\_ gives the visual representation of the component.

- a. Model
- b. View
- c. Controller
- d. None of these

## Question

---

In swing the event handling task is carried out by \_\_\_\_\_

- a. Model
- b. View
- c. Controller
- d. None of these

## Question

---

\_\_\_\_\_ represents enterprise data and the business rules that gives access to enterprise data.

- a. Model
- b. View
- c. Controller
- d. None of these

## Chapter 3: Event Handling

### Question

---

Which of these packages contains all the event handling interfaces?

- a. Java.lang
- b. Java.awt
- c. **Java.awt.event**
- d. Java.event

### Question

---

Where can the event handling code be written?

- a. Same class
- b. Other class
- c. Anonymous class
- d. **All of these**

### Question

---

Which of these class is super class of all the events?

- a. **EventObject**
- b. Eventclass
- c. ActionEvent

- d. ItemEvent

## Question

---

Which package provides many event classes and Listener interfaces for event handling?

- a. Java.awt
- b. Java.awt.graphics
- c. **Java.awt.event**
- d. None of the above

## Question

---

Which of these interfaces handles the event when a component is added to the container?

- a. componentListener
- b. **ContainerListener**
- c. FocusListener
- d. InputListener

## Question

---

Which of these interfaces define a method actionPerformed() ?

- a. Componentlistener
- b. Containerlistener
- c. Actionlistener
- d. Inputlistener

### Question

---

Which of these interfaces define four methods?

- a) Componentlistener
- b) Containerlistener
- c) Actionlistener
- d) Inputlistener

### Question

---

Which of these event will be generated if we close an applet's widow?

- a. Actionevent
- b. Componentevent
- c. adjustmentEvent
- d. WindowEvent

### Question

---

Which of these event is generated when a button is pressed?

- a. ActionEvent
- b. KeyEvent
- c. WindowEvent
- d. AdjustmentEvent

### Question

---

Which of these methods can be used to obtain the command name for invoking ActionEvent object ?

- a. getCommand()
- b. **getActionCommand()**
- c. getActionEvent()
- d. getActionEventCommand()

### Question

---

Which of these interfaces define a method itemStateChanged() ?

- a. ComponentListener
- b. ContainerListener
- c. ActionListener
- d. **ItemListener**

### Question

---

Which of these methods will be invoked if a character is entered?

- a. keyPressed()
- b. Keyreleased()
- c. **KeyTyped()**
- d. KeyEntererd()

### Question

---

Which of these constants defined in WindowEvent class?

- a. WINDOW\_ACTIVATED
- b. WINDOW\_CLOSED
- c. WINDOW\_DEICONIFIED
- d. **ALL OF THESE**

### Question

---

Which of these events is generated by scroll bar?

- a) ActionEvent
- b) KeyEvent
- c) WindowEvent
- d. **AdjustmentEvent**

### Question

---

Which of these constant value will change when the button at the end of scrollbar was clicked to increase its value?

- a. BLOCK\_DECREMENT
- b. BLOCK\_INCREMENT
- c. UNIT\_DECREMENT
- d. UNIT\_INCREMENT

### Question

---

Which of these methods is defined in MouseMotionAdapter class?

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

### Question

---

which of these methods can be used to obtain the coordinates of a mouse?

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

### Question

---

which of these is super class of all Adapter classes ?

- a. Applet

- b. ComponentEvent
- c. Event
- d. InputEvent

### Question

---

Which of these methods can be used to obtain the coordinates of a mouse?

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

### Question

---

MouseEvent is subclass of which of these classes?

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

### Question

---

Which of these are integer constants of TextEvent class?

- a. TEXT\_CHANGED
- b. TEXT\_FORMAT\_CHANGED

- c. TEXT\_VALUE\_CHANGED
- d. TEXT\_SIZE\_CHANGED

### Question

---

Which of these methods is used to obtain the object that generated a windowEvent?

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

### Question

---

Which of these methods is used to get x coordinate of the mouse?

- a. getX()
- b. getXCoordinate()
- c. getCoordinateX()
- d. getPointX()

### Question

---

Which of these is superclass of WindowEvent class?

- a. WindowEvent

- b. ComponentEvent
- c. ItemEvent
- d. InputEvent

### Question

---

Which event gets generated when the key is typed?

- a. KEY\_PRESSED
- b. KEY\_TYPED
- c. KEY\_RELEASED
- d. None of these

### Question

---

What method is used to distinguish between single, double and triple mouse clicks?

- a. getButton()
- b. getPoint()
- c. getClickCount()
- d. getX()

### Question

---

The `getNewState()` method belongs to \_\_\_\_\_

- a. TextEvent Class

- b. MouseEvent Class
- c. WIndowEvent Class
- d. KeyEvent Class

### Question

---

For scrollbars \_\_\_\_ event class is used.

- a. ActionEvent
- b. TextEvent
- c. AdjustmentEvent
- d. ContainerEvent

### Question

---

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

### Question

---

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 a 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

## Chapter 4: Networking Basics

### Question

---

Which package contains the classes and interfaces required for Java networking?

- a. Java.io
- b. Java.util
- c. **Java.net**
- d. Java.awt

### Question

---

Which methods are commonly used in ServerScoket class?

- a. Public OutputStream getOutputStream()
- b. **Public Socket accept()**
- c. Public synchronized void close()
- d. None of these

### Question

---

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

### Question

---

Which methods are commonly used in serversocket class?

- a) Public OutputStream getOutputStream()
- b) Public Socket accept()**
- c) Public synchronized void close()
- d) None of these

### Question

---

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

- a. TCP/IP**
- b. DNS
- c. Socket
- d. Proxy Server

### Question

---

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

- a. 10

- b. 1024
- c. 2048
- d. 512

### Question

---

How many bits are in a single IP address?

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

### Question

---

URL stands for Uniform Resource Locator and represents on the world wide web, such as a Webpage.

- a. True
- b. False

### Question

---

Which of these classes is used to encapsulate the IP address and DNS?

- a. DatagramPacket
- b. URL
- c. InetAddress

- d. ContentHandler

## Question

---

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

- a. True
- b. False

## Question

---

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

## Question

---

The client in socket programming must know which informations?

- a. IP address of server
- b. Port Number
- c. Both a and b

- d. None of these

### Question

---

Datagram is basically an information but there is no guarantee of its content, arrival or arrival time.

- a. True
- b. False

### Question

---

Port number 80 is reserved for \_\_\_\_ protocol.

- a. FTP
- b. HTTP
- c. SMTP
- d. Telnet

### Question

---

While using the getLocalHost() method the exception \_\_\_\_\_ is thrown

- a. UnknownHostException
- b. NullHostException

- c. LostHostException
- d. IOException

### Question

---

The class \_\_\_\_\_ is used for accessing the attributes of remote resource.

- a. URLConnection
- b. URL
- c. URI
- d. None of these

### Question

---

The correct way of using server socket is \_\_\_\_\_

- a. ServerSocket( int port )
- b. ServerSocket( int port, int maxQueue)
- c. ServerSocket( int port, int maxQueue, InetAddress localAddress)
- d. All of these

### Question

---

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. Java.net.URI
- d. None of the above

## **Chapter 5: Interacting with Database**

### **Question**

---

JDBC stands for \_\_\_\_\_

- a. Java Database Connectivity
- b. Java Database Control
- c. Java Database Components
- d. None of these

### **Question**

---

Which statements about JDBC are true?

- a. JDBC is an API to connect to relational-, object and XML data sources.
- b. JDBC stands for Java Database Connectivity
- c. JDBC is an API to access relational databases, spreadsheets and flat files
- d. JDBC is an API to bridge the object-relational mismatch between OO programs and relational databases.

### **Question**

---

Which package contains the JDBC classes?

- a. Java.jdbc and javax.jdbc
- b. Java.jdbc and java.jdbc.sql
- c. **Java.sql and javax.sql**
- d. Java.rdb and javax.rdb

### Question

---

JDBC technology based drivers generally fit into how many categories?

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

### Question

---

Which type of driver provides JDBC access via one or more ODBC drivers?

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

### Question

---

Which type of driver converts JDBC calls into the network protocol used by the database management system directly?

- a) Type 1 driver
- b) Type 2 driver
- c) Type 3 driver
- d) **Type 4 driver**

### Question

---

Which type of driver of JDBC is called pure driver?

- a) Type 1 driver
- b) Type 2 driver
- c) Type 3 driver
- d) **Type 4 driver**

### Question

---

Which type of driver of JDBC is called partly Java driver?

- a) Type 1 driver
- b) **Type 2 driver**
- c) Type 3 driver
- d) Type 4 driver

## Question

---

Which driver is efficient and always preferable for using JDBC applications?

- a) Type 1 driver
- b) Type 2 driver
- c) Type 3 driver
- d) Type 4 driver

## Question

---

The JDBC-ODBC bridge is \_\_\_\_\_

- a. Three-tired
- b. Multithreaded
- c. Best for any platform
- d. All of the above

## Question

---

Which driver is called as thin-driver in JDBC?

- a) Type 1 driver
- b) Type 2 driver
- c) Type 3 driver
- d) Type 4 driver

## Question

---

Which driver type of JDBC is used in either applet or servlet?

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

## Question

---

Which of the following is false as far as type 4 driver is concern?

- a. Type 4 driver is native protocol pure java driver
- b. Type 4 drivers are 100% java compatible
- c. Type 4 drivers uses socket class to connect to the database
- d. Type 4 drivers can not be used with Netscape.

## Question

---

Which of the following JDBC drivers is known as a partially java driver?

- a. JDBC-ODBC bridge driver
- b. Native-API driver
- c. Network Protocol driver
- d. Thin driver

## Question

---

Which class has strong support of the JDBC architecture?

- a. The JDBC driver manager
- b. The JDBC driver test suite
- c. The JDBC-ODBC bridge
- d. All of these

## Question

---

In order to transfer data between a database and an application written in the java programming language, the JDBC API provides which of these methods?

- a. Methods on the result set class for retrieving SQL Select results as Java types
- b. Methods on the prepared statement class for sending java types as SQL statement parameters.
- c. Methods on the callable statement class for retrieving SQL OUT parameters as java types
- d. All of these

## Question

---

The JDBC API has always supported persistent storage of objects defined in the java programming language through the methods `getObject` and `setObject`.

- a. True
- b. False

## Question

---

What is, in terms of JDBC, a data source?

- a. A datasource is the basic service for managing a set of JDBC drivers
- b. A data source is the java representation of a physical data source
- c. A datasource is a registry point for JNDI-services
- d. A data source is a factory of connections to a physical data source

## Question

---

Which of the following describes the correct sequence of the steps involved in making a connection with a database?

1. Loading the driver
  2. Process the result
  3. Making the connection with the database
  4. Executing the SQL statements
- a. 1,3,4,2

- b. 1,2,3,4
- c. 2,1,3,4
- d. 4,1,2,3

## Question

---

Which of the following methods are needed for loading a database driver in JDBC?

- a. registerDriver() method
- b. Class.forName()
- c. Both a & b
- d. getConnection()

## Question

---

Which type of statement can execute parameterized queries?

- a. preparedStatement
- b. parametrizedStatement
- c. CallableStatement
- d. All of these

## Question

---

What is used to execute parameterized query?

- a. Statement Interface

- b. **PreparedStatement Interface**
- c. **ResultSet Interface**
- d. None of the above

## Question

---

Which of the following encapsulates an SQL statement which is passed to the database to be parsed, compiled, planned and executed?

- a. **DriverManager**
- b. **JDBC driver**
- c. **Connection**
- d. **Statement**

## Question

---

Which of the following is used to call a stored procedure?

- a. Statement
- b. **PrepareStatement**
- c. CallableStatement
- d. **CalledStatement**

## Question

---

What happens if you call deleteRow() on a ResultSet Object?

- a. The row you are positioned on is deleted from the ResultSet, but not from the database
- b. The row you are positioned on is deleted from the ResultSet and from the database
- c. The result depends on whether the property synchronize with DataSource is set to true or false
- d. You will get a compile error

## Question

---

The JDBC-ODBC bridge supports multiple concurrent open statements per connection.

- a. True
- b. False

## Question

---

All raw data types should be read and uploaded to the database as an array of

- 
- a. Byte
  - b. Int
  - c. Boolean
  - d. Char

## Question

---

Are prepared statements actually compiled?

- a. Yes
- b. No

### Question

---

When the message “No suitable driver” occurs?

- a. When the driver is not registered by class.forName() method
- b. When the user name, password and the database does not match
- c. When the JDBC database URL passed is not constructed properly
- d. When the type 4 driver is used

### Question

---

Database system compiles query when it is \_\_\_\_\_

- a. Executed
- b. Initialized
- c. Prepared
- d. Invoked

### Question

---

\_\_\_\_\_ is an open source DBMS product that runs in window as well as Linux.

- a. JSP/SQL
- b. MySQL

- c. Microsoft Access
- d. SQL Server

## Question

---

To execute a statement, we invoked method \_\_\_\_\_

- a. **executeUpdate** method
- b. executeRel method
- c. executestmt method
- d. executeConn method

## Question

---

method on resultset that tests whether or not there remains at least one unfetched tuple in result set, is said to be

- a. fetch method
- b. current method
- c. **next** method
- d. access method

## Question

---

the ResultSet.next method is used to move to the next row of the ResultSet, making it the current row.

- a. **True**

- b. False

## Question

---

ResultSet object can be moved forward only and it is updatable.

- a. True
- b. False

## Question

---

Which JDBC drivers will run your program?

- a. The JDBC-ODBC bridge
- b. The JDBC driver manager
- c. The JDBC driver test suite
- d. None of the above

## Question

---

JDBC is a java API that is used to connect and execute query to the database.

- a. True
- b. False

## **Chapter 6: servlets**

### **Question**

---

The Java \_\_\_ specification defines an application programming interface for communication between the web server and the application program.

- a. Servlet
- b. Randomize
- c. Applet
- d. Script

### **Question**

---

Which method is used to specify before any lines that uses the PrintWriter?

- a. setPageType()
- b. setContextType()
- c. **setContent-Type()**
- d. setResponseType()

### **Question**

---

what are the functions of servlet container?

- a. Lifecycle management

- b. Communication support
- c. Multithreading support
- d. All of the above

## Question

---

What is bytecode?

- a. Machine-specific code
- b. Java code
- c. Machine-independent code
- d. None of these

## Question

---

What type of servlets use these methods doGet(), doPost(), doHead(),  
doDelete(), doTrace() ?

- a. Generic Servlets
- b. HttpServlets
- c. All of the above
- d. None of these

## Question

---

Web server is used for loading the init() method of servlet.

- a. True

- b. False

## Question

---

Which package represent interfaces and classes for servlet API?

- a. Javax.servlet
- b. Javax.servlet.http
- c. Both a & b
- d. None of these

## Question

---

What is the lifecycle of a servlet?

- a. Servlet class is loaded
- b. Servlet instance is created
- c. Init, service, destroy method is invoked
- d. All of these

## Question

---

What is the difference between servlet and applet?

- a. Servlets execute on servers while applets execute on browser
- b. Servlets create static pages while applets create dynamic pages

- c. Servlets can execute single request while applets execute multiple requests
- d. None of these

## Question

---

A deployment descriptor describes

- a. Web component response setting
- b. **Web component settings**
- c. Web component request settings
- d. All of these

## Question

---

Which object is created by the web container at time of deploying the project?

- a. servletConfig
- b. **servletContext**
- c. both a & b
- d. none of these

## Question

---

In HTTP request method Get request is secured because data is exposed in URL bar

- a. True

- b. False

## Question

---

Which class can handle any type of request so that is protocol-independent?

- a. GenericServlet
- b. HTTPServlet
- c. Both a & b
- d. None of these

## Question

---

Servlet technology is used to create web application

- a. True
- b. False

## Question

---

The doGet() method extracts values of the parameter's types number by using

- 
- a. Response.getAttribute()
  - b. Response.getParameter()
  - c. Request.getParameter()

- d. Request.setParameter()

## Question

---

Dynamic interception of requests and responses to transform the information is done by \_\_\_\_\_

- a. Servlet filter
- b. Servlet config
- c. Servlet container
- d. Servlet context

## Question

---

The life cycle of a servlet is managed by \_\_\_\_\_

- a. http and https
- b. servlet context
- c. servlet itself
- d. servlet container

## Question

---

which method take a string not a URL?

- a. sendRedirect

- b. forward
- c. both
- d. none

## Question

---

which method shows the client what server is receiving?

- a. doGet
- b. doOption
- c. doTrace
- d. doPost

## Question

---

What type of servlets use these methods doGet(), doPost(), doHead(),  
doDelete(), doTrace()?

- a. Generic servlets
- b. Httpservlets
- c. All of these
- d. None of these

## Question

---

Which of the following are session tracking techniques?

- a. URL rewriting, using sessionobject, using cookies, using hidden fields

- b. URL rewriting, using servlet object, using response object, using cookies
- c. URL rewriting, using session object, using response object, using hidden field

## Question

---

Which methods are used to bind the objects on HttpSession instance and get the objects?

- a. setAttribute
- b. getAttribute
- c. both a & b
- d. none of these

## Question

---

sessions is a part of the session tracking and it is for maintaining the client state at server side.

- a. True
- b. False

## Question

---

Which cookies it is valid for single session only and it is removed each time when the user closes the browser?

- a. Persistent cookies

b. Non-persistent cookies

c. All of these

None of these

## Question

---

Which method in session tracking is used in a bit of information that is sent by a web server to a browser and which can later be read back from browser?

a. HttpSession

b. URL rewriting

c. Cookies

d. Hidden form fields

*This is not the **End**, but the **Beginning***

Thank You

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