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# AJP MCQs MSBTE Exam Advanced Java MCQs MSBTE Online Exam

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AJP MCQs for MSBTE Exam 22517: Navigating the World of Advanced Java Programming with msbteallclear.com



AJP MCQs MSBTE Exam Advanced Java MCQs MSBTE Online Exam

**22517 Advanced Java Programming MCQs for Computer Engineering:** The world of computer engineering is ever-evolving, and staying ahead of the curve requires a solid understanding of advanced programming languages. In the realm of Java programming, the Maharashtra State Board of Technical Education (MSBTE) has designed the Advanced Java Programming (AJP) paper as part of the curriculum for computer engineering students. As the exam date approaches, students often seek comprehensive resources to hone their skills and master the intricacies of Advanced Java Programming.

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### 1. The Significance of Advanced Java Programming (AJP) in Computer Engineering:

Advanced Java Programming is a crucial component of the computer engineering curriculum, designed to equip students with the skills needed to develop sophisticated and robust applications. AJP goes beyond the basics of Java programming and explores advanced concepts like Servlets, JSP (JavaServer Pages), JDBC (Java Database Connectivity), and more.

### 2. Understanding the MSBTE Exam 22517:

The MSBTE Exam 22517 is the assessment platform where students demonstrate their proficiency in Advanced Java Programming. The exam includes MCQs, a format chosen to assess students' conceptual understanding, problem-solving abilities, and application of advanced Java concepts.

### 3. Importance of MCQs in Exam Preparation:

MCQs are a favored assessment tool due to their ability to cover a wide range of topics efficiently. They not only test theoretical knowledge but also evaluate a student's analytical and reasoning skills. In the context of AJP, mastering the MCQs is crucial for success in the exam and, by extension, in the field of computer engineering.



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### **MSBTE AJP Winter 2022 Exam MCQs**

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## AJP Previous Exam IMP MCQ's



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## Chapter 1 : Abstract Windowing Toolkit (AWT)

### 01 – Abstract Windowing Toolkit (AWT)

Q. 1. Give the abbreviation of AWT ?

(a) Applet Windowing Toolkit

(b) Abstract Windowing Toolkit

(c) Absolute Windowing Toolkit

**01 – Abstract Windowing Toolkit (AWT)**

(d) None of the above

Answer: b

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

Answer: b

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

Answer:b

Q. 4 AWT is used for GUI programming in java?

(a) True

(b) False

**01 – Abstract Windowing Toolkit (AWT)**

Answer:a

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

Answer:c

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

Answer:a

Q. 7 Which is the container that doesn't contain titlebar and MenuBars. It can have other components like

button, textfield etc?

**01 – Abstract Windowing Toolkit (AWT)**

(a) Window

(b) Frame

(c) Panel

(d) Container



Answer:c

Q. 8 How many types of controls does AWT supports these controls are subclasses of component?

(a) 7

(b) 6

(c) 5

(d) 8

Answer:a

Q. 9 Which are passive controls that do not support any interaction with the user?

(a) Choice

(b) List

**01 – Abstract Windowing Toolkit (AWT)**

(c) Labels

(d) Checkbox

Answer:c



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

Answer:a

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

**01 – Abstract Windowing Toolkit (AWT)**

Answer:b

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

Answer:c

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

Answer:c

## 01 – Abstract Windowing Toolkit (AWT)

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

Answer: c

Q. 15 AWT more powerful components like tables, lists, scroll panes, color chooser, tabbed pane etc.?

(a) True

(b) False

Answer: a

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)

**01 – Abstract Windowing Toolkit (AWT)**

(a) Graphics class

(b) Component class

(c) Both A & B

(d) None of the above



Answer: b

Q. 17 In Graphics class which method is used to draws 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)

Answer: b

Q. 18 Implement the Listener interface and overrides its methods is required to perform in event handling?

(a) True

(b) False

**01 – Abstract Windowing Toolkit (AWT)**

Answer: a

Q. 19 Public classMenuBar extends .

(a) MenuComponent

(b) MenuContainer

(c) ComponentMenu

(d)MenuBar

Answer: a

Q. 20. Which of the following is true about AWT and Swing components?

(a) AWT components creates a process whereas swing components creates a thread

(b) AWT components creates a thread whereas swing components creates a process

(c) Both AWT and Swing components creates a process

(d) Both AWT and swing components creates a thread

Answer: c

Q. 21 Panel is defined as .

**01 – Abstract Windowing Toolkit (AWT)**

- (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.

Answer: d

Q. 22. What is API?

- (a) Application Programming Interchange
- (b) Application Programming Interaction
- (c) Application Programming Interface
- (d) None of these

Answer: c

Q. 23.What is default layout for Dialog?

- (a) FlowLayout
- (b) GridLayout

**01 – Abstract Windowing Toolkit (AWT)**

(c) CardLayout

(d) BorderLayout

Answer: a



Q. 24 Which method is used to count the number of items in the List.

(a) getItem( )

(b) getSelectedItem( )

(c) getItemCount( )

(d) getCount( )

Answer: c

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

**01 – Abstract Windowing Toolkit (AWT)**

Answer: c

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)

Answer: b

Q. 27 What are the types of DialogBox?

(a) Modal DialogBox

(b) Modal and Modeless DialogBox

(c) Modam

(d) None of the above

Answer: b

Q. 28 In the give constructor what third parameter indicates : ScrollBar s = new ScrollBar(0,10,20,0,1000);

**01 – Abstract Windowing Toolkit (AWT)**

(a) size of thumb

(b) minimum value

(c) Increment value

(d) Initial Value



Answer: a

Q. 29 Which class is used to represent a single line textbox with password character facility?

(a) TextField

(b) TextArea

(c) Label

(d) Checkbox

Answer: a

Q. 30 To set the title to the Frame window method is used.

(a) void setTitle(String str)

(b) void setText(String str)

**01 – Abstract Windowing Toolkit (AWT)**

(c) void settitle(String str)

(d) None of the above

Answer: a

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 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

Answer: c

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.

**01 – Abstract Windowing Toolkit (AWT)**

(b) FlowLayout is the default layout manager of panel and applet.

(c) It is the default layout manager for window.

(d) Both A & B.



Answer: d

Q. 33 Which of the method can be used to output a String in an Applet?

(a) display( )

(b) print( )

(c) drawString( )

(d) transient( )

Answer: c

Q. 34 positions are the components into 5 regions east, west, south, north, center.

(a) CardLayout

(b) BorderLayout

(c) GridLayout

**01 – Abstract Windowing Toolkit (AWT)**

(d) FlowLayout

Answer: b

Q. 35 What is API?

(a) Application Programming Interchange

(b) Application Programming Interaction

(c) Application Programming Interface

(d) None of these

Answer: c

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

Answer: d

**01 – Abstract Windowing Toolkit (AWT)**

Q. 37 Which component of AWT provides compact, multichoice, scrolling component?

(a) List

(b) Choice

(c) Panel

(d) TextArea

Answer: a

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

Answer: c

Q. 39 Which method is used to set password characterfor a TextField?

(a) setPasswordCharacter( )

**01 – Abstract Windowing Toolkit (AWT)**

(b) setEchoChar( )

(c) setPassChar( )

(d) setEchoCharacter( )

Answer: b



Q. 40 The getContentPane( ) method is of which class?

(a) JApplet

(b) JFrame

(c) JButton

(d) None of these

Answer: d

Q. 41 Which class defines setSize( ) method?

(a) Frame

(b) Applet

(c) Component

**01 – Abstract Windowing Toolkit (AWT)**

(d) Panel

Answer: c

Q. 42 is a swing class that allows to enter a single line of text.

(a) JTextField

(b) JTextField

(c) EditTextField

(d) TextArea

Answer: b

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

Answer:d

## 01 – Abstract Windowing Toolkit (AWT)

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);

Answer: d

Q. 45 What is use of second parameter in given constructor Label(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

Answer: c

Q. 46 The setBackground() method is part of which of the following class java.awt package?

(a) Component

**01 – Abstract Windowing Toolkit (AWT)**

(b) Applet

(c) Object

(d) Graphics

Answer: a



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

Answer: b

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

**01 – Abstract Windowing Toolkit (AWT)**

(d) Family class

Answer: a

Q. 49 A is a passive AWT control that do not generate any event?

(a) Button

(b) RadioButton

(c) Choice

(d) Label

Answer: d

Q. 50 The default layout manager of Frame is .

(a) FlowLayout

(b) BorderLayout

(c) GridLayout

(d) CardLayout

Answer: c

## 01 – Abstract Windowing Toolkit (AWT)

Q. 51 Which method is used to check the status of checkbox?

(a) getStatus( )

(b) getState( )

(c) isChecked( )

(d) getChecked( )

Answer: b

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( )

Answer: d

Q. 53 generates action events when an item is double-clicked.

(a) List

**01 – Abstract Windowing Toolkit (AWT)**

(b) Checkbox

(c) MenuItem

(d) TextField

Answer: c



Q. 54 Which of the following does not have its default layout as BorderLayout.

(a) Frame

(b) Dialog

(c) JApplet

(d) All of Above

Answer: d

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.

**01 – Abstract Windowing Toolkit (AWT)**

(d) The AWT classes are deprecated.

Answer: c

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

Answer: b

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

Answer: c

## 01 – Abstract Windowing Toolkit (AWT)

Q. 58 Which AWT component is not editable?

(a) Button

(b) TextField

(c) FlowLayout

(d) Label

Answer: b

Q. 59 Current text of Label can be obtained using .

(a) setAlignment( )

(b) getAlignment( )

(c) getText( )

(d) setText( )

Answer: c

Q. 60 The method places a Menu m into theMenuBar mb.

(a) mb.addMenuItem(m)

**01 – Abstract Windowing Toolkit (AWT)**

(b) mb.addlItem(m)

(c) mb.add(m)

(d) None of these

Answer: c



## Chapter 2 : Swings

**02 – Swings**

Q. 1 The following specifies the

advantages of It is lightweight.

**Q2 – Swings**

It supports pluggable look and feel.

It follows MVC (Model View

Controller) architecture.

(a) Swing

(b) AWT

(c) Both A & B

(d) None of the above

Answer: a

Q. 2 Swing is not a part of JFC (Java Foundation Classes) that is used to create GUI application?

(a) True (b) False

Answer:b

Q. 3 The Swing Component classes that are used in Encapsulates a mutually exclusive set of buttons?

(a) AbstractButton

(b) ButtonGroup

**02 – Swings**

(c) JButton

(d) ImageIcon

Answer: b



Q. 4 The Java Foundation Classes (JF(c) is a set of GUI components which simplify the

development of desktop applications?

(a) True (b) False

Answer: a

Q. 5 Which package is used for import the swing components?

(a) java.swing

(b) java.awt

(c) javax.swing

(d) All of the above

Answer: c

Q. 6 The String parameter to JButton constructor .

**02 – Swings**

- (a) tell which region to put the JButton in.
- (b) tells the color of the JButton.
- (c) tells what text will appear on JButton.
- (d) tells what should happen when JButton is pressed.

Q

Answer: c

Q. 7 MVC architecture is

- (a) Modelling – Visual – Controller
- (b) Model – View – Controller
- (c) Model – Viewable – Controller
- (d) Many – View – Controller

Answer: b

Q. 8 Alignment constants of JLabel are the part of

- a) SwingConstants interface
- b) SwingConstants class

**02 – Swings**

c) Swing class

d) Graphics class

Answer: a

Q. 9 In swing, Buttons are subclasses of which class?

(a) AbstractButton

(b) JButton

(c) Button

(d) JRadioButton

Answer: a

Q. 10 JTree class belongs to which package?

(a) java.awt

(b) java.applet

(c) java.swing

(d) javax.swing

Answer: d

**02 – Swings**

Q. 11 Which component is swing represents data in row and columns?

(a) JTextArea

(b) JTable

(c) JPanel

(d) JtabbedPane

Answer: b

Q. 12 Which of the following is not constructor of JTree?

(a) JTree(TreeNode tn)

(b) JTree(Vector v)

(c) JTree(int x)

(d) none of the above

Answer: c

Q. 13 class used to create node in tree.

**02 – Swings**

(a) TreeNode

(b) DefaultMutableNode

(c) DefaultMutableTreeNode

(d) Node



Answer: c

Q. 14 JTabbedPane class is present in which package?

(a) java.awt

(b) java.swing

(c) java.awt.swing

(d) javax.swing

Answer: d

Q. 15 What is purpose of JTree?

(a) To show data in form of parent and child nodes.

(b) To show data in list view.

**02 – Swings**

(c) To show data in tabular form.

(d) To show data in menu-bar.

Answer: a



Q. 16 What is the use of : Container getContentPane( )

(a) Returns Container for a JDialog.

(b) Returns a ContentPane for Menu

(c) Returns a ContentPane for Applet

(d) None of the above

Answer: c

Q. 17 Which of the following method is not applicable for Button in swing.

(a) setDisableIcon( )

(b) setPressedIcon( )

(c) setSelectedIcon( )

(d) setRollOverIcon( )

**02 – Swings**

Answer: c

Q. 18 Which of the following method is used to retrieve icon of JButton?

(a) Icon getIcon( )

(b) ImageIcon getIcon( )

(c) ImageIcon getIcon( )

(d) ImageIcon GetIcon( )

Answer: c

Q. 19. Which method is used to display icon on a Button?

a) setImage(ImageIcon i)

b) setIcon(ImageIcon i)

c) setPicture(ImageIcon i)

d) setImageIcon(ImageIcon i)

Answer: b

Q. 20. How will you set icon for the Jlabel?

**02 – Swings**

- a) Using Icon class directly
- b) Using setIcon( ) method
- c) Using makeIcon( ) method
- d) It is not possible to set icon for JLabel

Q.

Answer: b

Q. 21. What is the return type of getText( ) method of JButton class?

- a) void
- b) String
- c) Character array
- d) There is no such method

Answer: b

Q. 22. 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.

**02 – Swings**

c) Checkbox is selected and it shows the tick always on it.

d) There is no such constructor

Answer: d



Explanation: No explanation Available

Q. 23. How to make the group of Radio buttons?

a) Using ButtonGroup class

b) Using JButtonGroup class

c) Using JRadioButton

d) Using AbstractButton class

Answer: a

Q. 24. How to contents of whole vector into the JComboBox?

a) Use the constructor of JComboBox

b) Use method addItem( )

c) Use method addVector( )

**02 – Swings**

d) Use method addValues( )

Answer: a

Q. 25. The scroll bar constants for scroll pane are defined in

a) Scrollbar class

b) ScrollPane class

c) ScrollPaneConstants interface

d) Component class

Answer: c

Q. 26. Which of the following constants shows scroll bars always?

a) HORIZONTAL\_SCROLLBAR\_ALWAYS

b) HORIZONTAL\_SCROLLBAR\_AS\_NEEDED

c) HORIZONTAL\_SCROLLBARS

d) HORIZONTAL\_ALWAYS

Answer: a

**02 – Swings**

Q. 27. Is it possible to add array of objects to trees? How?

a) Not possible

b) Yes, using its one of the forms of constructor

c) Yes, using the add( ) method



d) Yes, using the addItem( ) method

Answer: b

Q. 28. Find an error of following program

import

javax.swing.JFrame;

import

javax.swing.JTree;

import javax.swing.SwingUtilities;

import

javax.swing.tree.DefaultMutableTreeNode;

public class TreeExample extends JApplet

**02 – Swings**

{ JTree

tree;

public void

init() {

DefaultMutableTreeNode root = new DefaultMutableTreeNode("Root");

DefaultMutableTreeNode vegetableNode = new

DefaultMutableTreeNode("Vegetables"); DefaultMutableTreeNode fruitNode =

new DefaultMutableTreeNode("Fruits"); root.add(vegetableNode);

root.add(fruit

Node); tree =

new JTree();

add(tree);

} }

/\*

\*/ a) Error in statement in which JTree is created b) Error in Applet code c) No error d) Error in Frame

Answer: a Q. 30. The default orientation to display the progress bar is? a) CENTER b) TOP c) HORIZONTAL

d) VERTICAL Answer: c Q. 31. MutableTreeNode is extends ..... interface a) TreePath b) Tree

- c) DefaultMutableTreeNode d) MutableTreeNode Answer: b Q. 32. 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 d) Single data element and Row heading Answer: b

**Chapter 3 : Event Handling****03 – Event Handling**

Q. 1. The Following steps are required to perform Implement the Listener interface and overrides

its methods Register the component with the Listener

(a) Exception Handling

(b) String Handling

(c) Event Handling

(d) None of the above

Answer: c

Q. 2 In which places can put the event handling code

(a) Same class

(b) Other class

(c) Annonymous class

(d) All mentioned above

**Q3 – Event Handling**

Answer: d

Q. 3 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

Answer: c

Q. 4 To use the ActionListener interface it must be implemented by a class there are several ways

to do that find in the following?

(a) Creating a new class

(b) using the class the graphical component

(c) an anonymous inner class

(d) All mentioned above

Answer: d

**03 – Event Handling**

Q. 5 The ActionListener interface is not used for handling action events?

(a) True

(b) False

Answer: b



Q. 6 The ActionListener interface is used for handling action events, For example, it's used by a

(a) JButton

(b) JCheckbox

(c) All of these

(d) JMenuItem

Answer: c

Q. 7 Which class is used for this Processing Method processActionEvent( )?

(a) Button,List,MenuItem

(b) Button,Checkbox,Choice

(c) Scrollbar,Component,Button

**O3 – Event Handling**

(d) None of the above

Answer: a

Q. 8 In Graphics class Which method is used to set the graphics current color to the specified color?

(a) public abstract void setFont(Font font)

(b) public abstract void setColor(Color c)

(c) public abstract void drawString(String str, int x, int y)

(d) None of the above

Answer: b

Q. 9 Which of the following method is used to determine the type of adjustment event?

(a) getType( )

(b) getEventType( )

(c) getAdjustmentType( )

(d) getEventObjectType( )

Answer: c

### 03 – Event Handling

Q. 10 TextField generates event.

(a) ActionEvent,ItemEvent

(b) ActionEvent, TextEvent

(c) ScrollEvent,TextEvent

(d) ActionEvent, ScrollEvent

Answer: b

Q. 11 void keyTyped(KeyEvent ke) called when a key on the keyboard is .

(a) pressed and then released.

(b) pressed

(c) released

(d) none of the above

Answer: a

Q. 12 Which event is generated when the position of scrollbar is changed?

(a) KeyEvent

**O3 – Event Handling**

(b) MouseEvent

(c) ItemEvent

(d) AdjustmentEvent

Answer: d



Q. 13 The signature for the registration method for a ActionEvent should be .

(a) public void addActionListener(ActionEvent L)

(b) public void setAction(ActionEvent L)

(c) public void setActionListener(ActionListener L)

(d) public void addActionListener(ActionListener L)

Answer: d

Q. 14 Which of the following component generates ActionEvent?

(a) Window

(b) RadioButton

(c) ScrollBar

**O3 – Event Handling**

(d) None

Answer: d

Q. 15 method is used to register a keyboard event listener.

(a) KeyListener( )

(b) addKeyListener( )

(c) addKeyEventListener( )

(d) eventKeyboardListener( )

Answer: b

Q. 16 Name the method defined in EventObject class that returns the object generated from the event.

(a) getEvent( )

(b) getObject( )

(c) getId( )

(d) getSource( )

Answer: d

### 03 – Event Handling

Q. 17 The MouseListener interface is used to make mouse handling.

(a) True

(b) False

Answer: a



Q. 18 ActionEvent is applied on

(a) Frame

(b) Checkbox, Choice, List

(c) Scrollbar

(d) Button, TextField, List, Menu

Answer: d

Q. 19 ComponentEvent is the super class of .

(a) FocusEvent

(b) MouseEvent

(c) WindowEvent

**O3 – Event Handling**

(d) All of the above

Answer: d

Q. 20 If we close an applet window events will be generated.

(a) ActionEvent

(b) ComponentEvent

(c) AdjustmentEvent

(d) WindowEvent

Answer: d

Q. 21 Which of the following component generate ActionEvent?

(a) ScrollBar

(b) Window

(c) RadioButton

(d) None of these

Answer: d

### 03 – Event Handling

Q. 22 Which Listener handles all List related Events?

(a) ItemListener

(b) InputEvent

(c) SelectEvent

(d) ListEvent

Answer: a

Q. 23 How to obtain the command name for invoking ActionEvent?

(a) getCommandName( )

(b) getActionEventCommand( )

(c) getActionCmd( )

(d) getActionCommand( )

Answer: d

Q. 24 ComponentEvent is the superclass of

(a) ActionEvent

**O3 – Event Handling**

(b) ItemEvent

(c) TextEvent

(d) All of above

Answer: d



Q. 25 When we need to use Checkbox or Item from the list or use a checkable Menu an is generated.

(a) ActionEvent

(b) ItemEvent

(c) MenuEvent

(d) ClickEvent

Answer: b

Q. 26 Which of the following constant is not defined in WindowEvent class?

(a) WINDOW\_ACTIVATED

(b) WINDOW\_CLOSED

(c) WINDOW\_DEICONIFIED

### 03 – Event Handling

(d) None of these

Answer: d

Q. 27 Which of the following is not the method of handling window event?

(a) void windowClosed(WindowEvent we)

(b) void windowClosing(WindowEvent we)

(c) void windowAfterClosing(WindowEvent we)

(d) All of these

Answer: c

Q. 28 Which method is used to process mouse click?

(a) public void mouseClicked(MouseListener m)

(b) public void mouselsClicked(MouseEvent m)

(c) public void mouseClicked(MouseEvent m)

(d) public void mouseClick(MouseEvent m)

Answer: c

### 03 – Event Handling

Q. 29 Which class is used for this processing method process.ActionEvent( ) method?

(a) Button, List, MenuItem

(b) Button, Checkbox, Choice

(c) ScrollBar, Component, Button

(d) None of the above.

Answer: a

Q. 30 Which of this 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

Answer: d

Q. 31 Name the method defined in EvenObject class that returns the object generated from the event.

(a) getEvent( )

**O3 – Event Handling**

(b) getObject( )

(c) getId( )

(d) getSource( )

Answer: d



Q. 32 Which of these interfaces define a method actionPerformed()

(a) ComponentListener

(b) ContainerListener

(c) ActionListener

(d) InputListener

Answer: c

Q. 33 Button Control implements following listener interface.

(a) ItemListener

(b) ActionListener

(c) FlowListener

**O3 – Event Handling**

(d) Adapter

Answer: b

Q. 34 Clicking the closing button on the upper right corner of a frame generates a (n)-event.

(a) ItemEvent

(b) WindowEvent

(c) MouseMotionEvent

(d) ComponentEvent

Answer: b

Q. 35 Which of the following method must be overridden in the order to handle KeyEvent.

(a) keyPressed(KeyEvent obj)

(b) KeyReleased(KeyEvent obj)

(c) KeyTyped(KeyEvent obj)

(d) All of these

Answer: d

### 03 – Event Handling

Q. 36 Which of these methods can be used to know the degree of adjustment made by the user?

(a) getValue( )

(b) getAdjustmentType( )

(c) getAdjustmentValue( )

(d) getAdjustmentAmount( )

Answer: c

Q. 37 MouseEvent is subclass of which of the following class?

(a) ComponentEvent

(b) ContainerEvent

(c) ItemEvent

(d) InputEvent

Answer: d

Q. 38 The is an object that is notified when an event occurs.

(a) Listener

**03 – Event Handling**

(b) Sources

(c) Event

(d) None of the above

Answer: a



Q. 39 What is the use of String getActionCommand( ) method of ActionEvent class?

(a) to obtain the label (caption) of Button

(b) to obtain the reference of Button

(c) to obtain object of Button

(d) to obtain the label (caption) and object of Button

Answer: a

**Chapter 4 : Networking Basics****04 – Networking Basics**

Q. 1 UDP stands for

(a) User Data Port

(b) User Datagram Protocol

#### 04 – Networking Basics

(c) Used Data Provider

(d) User Data Protocol

Answer: b



Q. 2 Name the class which is used to create a port where the server will listen.

(a) Server

(b) Socket

(c) ServerSocket

(d) SocketServer

Answer: b



Q. 3 Communication using TCP protocol is and .

(a) Connection less, Iterative

(b) Collection less, concurrent

(c) Connection oriented, Iterative

(d) Connection oriented, concurrent

#### 04 – Networking Basics

Answer: d

Q. 4 Which of these is a not a factory method of InetAddress class?

(a) static InetAddress getLocalHost( )



(b) static InetAddress getByName(String hostname)

(c) static InetAddress getAllName(String hostname)

(d) static InetAddress[ ] getAllByName(String hostname)

Answer: c

Q. 5 Which from the below use “Middle tier”.

(a) 3 tier

(b) 4 tier

(c) n – tier

(d) all of the above

Answer: d

Q. 6 java.net package consists of interface

**04 – Networking Basics**

(a) ContentHandlerFactory

(b) SocketImplFactory

(c) FileNameMap and URLStreamHandlerFactory

(d) All of the above



Answer: d

Q. 7 IPv6 uses .

(a) 4 groups of 8 bits each

(b) 4 group of 8 hexa-decimal digits

(c) 8 groups of 4 digits each

(d) 8 groups of 4 hexa-decimal digits each

Answer: d

Q. 8 Select full form of DNS.

(a) Data Network System

(b) Domain Name System

#### 04 – Networking Basics

(c) Domain Name Server

(d) Domain Naming Service

Answer: d



Q. 9 What is the use of WriteUTF( ) method?

(a) This method writes a string into underlying output stream.

(b) This method reads a sting from underlying input stream.

(c) This method writes a byte array into underlying output stream.

(d) This method writes a character array into underlying output stream.

Answer: c

Q. 10 Which of these is a bundle of information passed

between machines?

(a) MIME

(b) Cache

(c) Datagram

#### 04 – Networking Basics

(d) Socket

Answer: c

Q. 11 Port number for FTP is



(a) 21

(b) 23

(c) 25

(d) 80

Answer: a

Q. 12 The class which encapsulates both the numerical IP address and the domain name for that address

is .

(a) DatagramPacket

(b) DatagramSocket

(c) InetAddress

(d) ServerSocket

#### 04 – Networking Basics

Answer: c

Q. 13 int getServerPort( ) method

(a) returns the port number on which this request was received.



(b) returns the port name on which the request was received.

(c) returns the server number on which this request was received.

(d) returns the port number on which this response/request was received.

Answer: d

Q. 14 In this constructor ServerSocket(int port, int max\_queue) what is the default value for max\_queue?

(a) 100

(b) 50

(c) 75

(d) 80

Answer: b

Q. 15 The constructor of URL can throw an exception called

#### 04 – Networking Basics

(a) MalformedURLException

(b) FileNotFoundException

(c) IOException

(d) UrlSourceNotFoundException



Answer: a

Q. 16 Which IP address is multicast IP address?

(a) 192.168.2.32

(b) 235.55.45.2

(c) 12.22.1.2

(d) None of these

Answer: d

Q. 17 Which 5 parameters uniquely identify a connection?

(a) Local IP, Remote IP, Local MAC, Remote MAC and Protocol

(b) Local IP, Local PORT, Remote MAC, Remote PORT and Protocol

(c) Local MAC, Local PORT, Remote MAC, Remote PORT and Protocol

#### 04 – Networking Basics

(d) Local IP, Local PORT, Remote IP, Remote PORT and Protocol

Answer: b

Q. 18 Select the method used to create URL connection.



(a) URL Connection



(b) open Connection



(c) URL



(d) URL Decoder

Answer: a

Q. 19 What value is returned by the readLine( ) method when it reach at End of File?

(a) EOF

(b) null

(c) 0

(d) END

Answer: b

#### 04 – Networking Basics

Q. 20 The class is used to create TCP server.

(a) Server

(b) SocketServer

(c) ServerSocket



(d) Socket

Answer: c

Q. 21 Which method of ServerSocket will wait for a client to initiate communication and then

communication with the client?

(a) wait( )

(b) connect( )

(c) waitForClient( )

(d) WaitForConnect( )

Answer: b

Q. 22 method is used to retrieve file name specified in URL.

#### 04 – Networking Basics

(a) getFile( )

(b) getUrl( )

(c) getFileUrl( )

(d) getLocalFile( )



Answer: a

Q. 23 is necessary to implement Datagram.

(a) DatagramPacket

(b) DatagramSocket

(c) Both A & B

(d) None of A & B

Answer: d

Q. 24 Which is the correct syntax for getLocalHost( ) method?

(a) public static InetAddress getLocalHost( ) throws UnknownHostException

(b) public static IpAddress getLocalHost( ) throws UnknownHostException

#### 04 – Networking Basics

(c) public static String getLocalHost( ) throws UnknownHostException

(d) public static void getLocalHost( ) throws UnknownHostException

Answer: a



Q. 25 Which of these method of DatagramPacket class is used to find the destination address?

(a) findAddress( )

(b) getAddress( )

(c) address( )

(d) whols( )

Answer: b



Q. 26 Connection oriented communication is possible using classes of Java.

(a) Socket and ServerSocket

(b) DatagramSocket and DatagramPacket

(c) Both of these

(d) None of these

#### 04 – Networking Basics

Answer: c

Q. 27 A server socket can connect to clients.

(a) 1



(b) 2

(c) 10

(d) multiple

Answer: d

Q. 28 Resolver in DNS system maps .

(a) Domain name to IP address

(b) IP address to domain name

(c) Domain name to MAC address

(d) MAC address to IP address

Answer: b

Q. 29 If a program consists of three classes, then after compilation how many class files will be created

#### 04 – Networking Basics

by the compiler?

(a) one

(b) three

(c) uncountable



(d) zero

Answer: b

Q. 30 Which of the following is not a method of Security class?

(a) socketPermission( )

(b) filePermission( )

(c) dataPermission( )

(d) None of above

Answer: d

Q. 31 TCP does not supports Multicasting and Broadcasting because .

(a) It supports full duplex communication.

#### 04 – Networking Basics

(b) It provides error control.

(c) It provides flow control

(d) It is connection oriented protocol

Answer: d



Q. 32 Which of the following is true about TCP protocol?

(a) is reliable and connection oriented

(b) is unreliable but connection oriented

(c) is reliable and connectionless

(d) None of these

Answer: a

Q. 33 Which class defines following methods?

int getContentLength( )

long getDate( )

long getExpiration( )

#### 04 – Networking Basics

(a) URLConnection

(b) Datagram

(c) Client

(d) None of these



Answer: a

Q. 34 Name the class which is used to create a port where the server will listen?

(a) Server

(b) Socket

(c) ServerSocket

(d) SocketServer

Answer: b

Q. 35 class Permission in java.security package is .

(a) static

(b) abstract

#### 04 – Networking Basics

(c) final

(d) None of these

Answer: b



Q. 36 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: b



Q. 37 Which is the proper method to retrieve the host name of local machine?

(a) static InetAddress getLocalHost( ) throws UnknownHostException

(b) static InetAddress getByName(String host\_name ) throws UnknownHostException

(c) static InetAddress getAllByName(String host\_name ) throws UnknownHostException

(d) String getHostAddress( )

**04 – Networking Basics**

Answer: a

Q. 38 Which constructor of DatagramPacket class are used for receiving purpose?

(a) DatagramPacket(byte data[ ], int size) DatagramPacket(byte data[ ], int size, int offset, int port)

(b) DatagramPacket(byte data[ ], int size, InetAddress ip, int port) DatagramPacket(byte data[ ], int offset, int size, InetAddress ip, int port)

(c) DatagramPacket(byte data[ ], int size) DatagramPacket(byte data[ ], int size, InetAddress ip, int port)

(d) All of these

Answer: d

**Chapter 5 : Interacting with Database****05 – Interacting with Database**

Q. 1 The package contains classes that help in connecting to a database, sending SQL

statements to the database and process the query request.

(a) connection.sql

(b) db.sql

(c) pkg.sql

**05 – Interacting with Database**

(d) java.sql

Answer: a

Q. 2 Which of the following is not a type of JDBC driver?

(a) 100% pure Java Driver

(b) JDBC – net pure Java Driver

(c) JDBC – Native API driver

(d) JDBC – Native pure Java Driver

Answer: d

Q. 3 In JDBC imports all Java classes that are concern with Database connectivity.

(a) javax.sql

(b) java.mysql

(c) java.sql

(d) com.sql

Answer: c

## 05 – Interacting with Database

Q. 4 Database programming using Java throws which of the following exception?

(a) SQLException

(b) ClassNotFoundException

(c) None of these

(d) Both of these

Answer: d

Q. 5 In the below statement, which type of query can be used with executeUpdate( ) method.

statement.executeUpdate(query here)

(a) Insert, Update, Delete

(b) Insert, Select, Delete

(c) Only Select

(d) Any Query

Answer: a

Q. 6 What is purpose of next( ) method?

**05 – Interacting with Database**

(a) to retain the next element in a series.

(b) to retain next table.

(c) to retain next record in a series.

(d) None of the above



Answer: c

Q. 7 Native – protocol pure Java Driver converts into the directly.

(a) JDBC calls, network protocol

(b) ODBC class, network protocol

(c) ODBC class, user calls

(d) JDBC calls, user calls

Answer: d

Q. 8 Choose the correct syntax for getConnection( ) method.

(a) public static Connection getConnection(String url, String password) throws SQLException

(b) public static Connection getConnection(String name, String password) throws SQLException

## 05 – Interacting with Database

(c) public static Connection getConnection(String url, String name, String password) throws SQLException

(d) public static Connection getConnection(String url, String name) throws SQLException

Answer: c



Q. 9 SQL stands for .

(a) Structured Query Language

(b) Sequential Query Language

(c) Structured Question Language

(d) Sequential Question Language

Answer: a

Q. 10 is a table of data which represents a data from table.

(a) MetaData

(b) ResultSetMetaData

(c) ResultSet

(d) Statement

## 05 – Interacting with Database

Answer: c

Q. 11 Public class DriverManager extends

(a) Object

(b) String

(c) Connection

(d) Statement

Answer: a

Q. 12 Which of the following method is supported by Statement interface?

(a) public boolean execute(String query)

(b) public ResultSet executeQuery(String query)

(c) public int executeUpdate(String query)

(d) All of above

Answer: d

Q. 13 In following statement rs is an object of interface of JDBC API.

## 05 – Interacting with Database

System.out.println(rs.getString(3));

(a) RowSet

(b) Statement

(c) Connection

(d) ResultSet

Answer: d

Q. 14 Which is main component of JDBC API?

(a) DriverManager

(b) Driver

(c) Connection

(d) All of these

Answer: d

Q. 15 How many steps are used to connect any java application with the database using JDBC ?

(a) 5

**05 – Interacting with Database**

(b) 4

(c) 3

(d) 6

Answer: a



Q. 16 ODBC minimum SQL grammar contains

(a) Stored procedure

(b) Data, Time and TimeStamp only

(c) create or drop View

(d) Insert, update, delete only

Answer: d

Q. 17 Which class/interface is used for an SQL statement that is executed frequently?

(a) Statement

(b) CallableStatement

(c) PreparedStatement

## 05 – Interacting with Database

(d) None of the above

Answer: c

Q. 18 What does the following code do : smt = con.createStatement( )

(a) A PreparedStatement object is created to send SQL commands to database.

(b) A Statement object is created to send SQL commands to database.

(c) A CallableStatement is created to send SQL commands to database.

(d) A Statement object is created to execute parameterized SQL commands.

Answer: b

Q. 19 Which kind of driver converts JDBC calls into calls on the Client API for Oracle, Sybase, Informix, BM

DB2, or other DBMS

(a) JDBC ODBC bridge + ODBC Driver

(b) Native API partly – Java Driver

(c) JDBC – Net pure Java Driver

(d) Native Protocol Pure Java Driver

## 05 – Interacting with Database

Answer: b

Q. 20 Which method executes an SQL statement that may return multiple results?

(a) executeUpdate( )

(b) executeQuery( )

(c) execute( )

(d) noExecute( )

Answer: b

Q. 21 Identify correct syntax of executeQuery( ) of Statement interface.

(a) public static ResultSet executeQuery( )

(b) public ResultSet executeQuery(String q)

(c) public void executeQuery(String q)

(d) public int executeQuery(String q)

Answer: b

Q. 22 Native API converts into the used by DBMS.

## 05 – Interacting with Database

(a) JDBC API, Network Protocol

(b) JDBC API, Native API calls

(c) JDBC API, use calls

(d) JDBC API, ODBC API calls



Answer: b

Q. 23 Which of the following function is used to find the column count of the particular ResultSet.

(a) getMetadata( )

(b) metadata( )

(c) getColumnCount( )

(d) getCount( )

Answer: c

Q. 24 The JDBC-ODBC bridge supports how many concurrent open statements per connection ?

(a) 1

(b) 0

**05 – Interacting with Database**

(c) Does not support connection

(d) None of these

Answer: a



Q. 26 Microsoft Access data in file format.

(a) .DAT

(b) .MDB

(c) .MSSQL

(d) .OBJ

Answer: b

Q. 27 Which of the following method is used for send SQL statements?

(a) Statement

(b) CallableStatement

(c) PreparedStatement

(d) Both B & C

**05 – Interacting with Database**

Answer: d

Q. 28 DELETE statement of an SQL is executed by .

(a) execute( )

(b) executeQuery( )

(c) executeUpdate( )

(d) executeDelete( )

Answer: c

Q. 29 The interface to the databasee is handle by .

(a) ODBC

(b) JDBC

(c) JDBC & ODBC

(d) APIs

Answer: b

Q. 30 DatabaseMetadata are retrieved through

**05 – Interacting with Database**

(a) getDatabaseMetadata( )

(b) getMetaData( )

(c) getDBMeta( )

(d) getDatabaseMeta( )



Answer: a

Q. 31 Which method is used to retrieve the ResultSet created?

(a) executeQuery( )

(b) getResultSet( )

(c) getResultsetResult( )

(d) getResult( )

Answer: a

Q. 32 Which of the following is used generally for reading the content of the database?

(a) DatabaseData

(b) DataBaseData

## 05 – Interacting with Database

(c) ResultSet

(d) DatabaseResult

Answer: c

06 – Servlets Marks:-14

Content of Chapter:-

6.1 Servlet Type of Servlet, Servlet life cycle

6.2 Creating Simple Servlet: The Servlet API, javax.servlet Package, Servlet Interface, Servlet

Config Interface, ServletContext Interface,ServletRequest ,ServletResponse,GenericServlet

Class

6.3 The Javax.servlet.httpPackage:HttpServletRequest Interface, HttpServletResponse

Interface, HttpSession Interface, Cookie Class, HttpServlet Class,HttpSessionEvent Class,

HttpSessionBindingEvent Class

6.4 Handling Http Request and Responses, Handling HTTP GETRequest, Handling Http POSTRequest

6.5 Cookies and Session Tracking

**Chapter 6 : Servlets****06 – Servlets**

Q. 1 JSP embeds in .

(a) Servlet, HTML

(b) HTML, Java

(c) HTML, Servlet

(d) Java, HTML

Answer: d

Q. 2 Which of the following is the default HttpServletRequest method?

(a) doGet( )

(b) doPost( )

(c) doTrace( )

(d) doPut( )

Answer: a

Q. 3 Which are true about tag libraries in web application?

(a) packaged in the /WEB-INF directory or subdirectory of the WAR file

(b) If a tag is implemented as a tag file and packaged in /WEB-INF/tags/ or a subdirectory,

a TLD will be generated automatically by the web container, though, you can provide one if you wish

(c) packaged in the /META-INF/ directory or subdirectory of a tag library packaged in a jar.

(d) All of the above.

Answer: d

Q. 4 Name the http method used to send resources to the server.

(a) FTP method

(b) PUT method

(c) WRITE method

(d) COPY method

Answer: b

Q. 5 Identify the proper syntax of doGet( ).

(a) void doGet(HttpServletRequest res,Httprequest req) throws IOException, ServletException

(b) void doGet(HttpRequest req,Httpresponse res) throws IOException, ServletException

(c) void doGet(HttpServletRequest res) throws IOException, ServletException

(d) void doGet(HttpServletRequest req) throws IOException, ServletException

Answer: b

Q. 6 Given an HttpServletRequest request and HttpServletResponse response instances. Which sets a

cookie "username" with the value "joe" in a servlet?

(a) request.addCookie(new Cookie("username", "joe));

(b) response.addCookie(new Cookie("username", "joe"))

(c) request.addCookie("username", "joe);

(d) request.addCookie("username", "joe);

Answer: b

Q. 7 Which JSP tag is used to transfer for processing another JSP page?

(a)

(b)

(c)

(d)

Answer: b

Q. 8 An application wants to invalidate the session both programmatically and declaratively. Select the

best match to do this.

(a) httpRequest.getSession().end()

time\_in\_minutes

(b) httpRequest.getSession( ).invalidate( )

time\_in\_minutes

(c) httpRequest.getSession( ).close( )

time\_in\_minutes

(d) httpRequest.getSession( ).invalidate()



time\_in\_minutes

Answer: b

Q. 9 The include( ) method in RequestDispatcher .

(a) sends a request to another resource like servlet, JSP or html.

(b) includes resources of file like servlet, JSP or html.

(c) appends the request and response objects to the current servlet.

(d) None of these Servlets

Answer: c

Q. 10 State true or false for following statements.

(i) JavaBeans slow-down software development process.

(ii) Java Servlets do not have built-in multithreaded feature.

(a) false, false

(b) false, true

(c) true, false

(d) true, true

Answer: a

Q. 11 is a small piece of information that is passed back & forth in HTTP request & response.

(a) Servlet

(b) Applet

(c) Cookie

(d) Session

Answer: c

Q. 12 Which life cycle method is used to process a client's request?

(a) start( )

(b) init( )

(c) service( )

(d) destroy( )

Answer: c

Q. 13 A user types the URL <http://www.msbte.com/result.php>. Which request gets generated?

(a) GET method

(b) POST method

(c) HEAD method

(d) PUT method

Answer: b

Q. 14 Apache Tomcat is .

(a) Servlet

(b) Java Program

(c) API

(d) Web server capable of running Java programs

Answer: d

Q. 15 What the getSession( ) method with “true” parameter will do?

(a) The session is completed

(b) The session object is passed to another method

(c) Creates new session if, the session does not exist

(d) The session is exist

Answer: c



Q. 16 A JSP page consists of which tags?

(a) HTML tags

(b) JSP tags

(c) Both A & B

(d) None of the above

Answer: c

Q. 17 Life cycle of a servlet is managed by

(a) Servlet Context

(b) Servlet Container

(c) Supporting protocol

(d) All of the above

Answer: b

Q. 18 To send binary output in the response, the following method of

HttpServlet response may be used to get the appropriate Writer/Stream object.

(a) getStream( )

(b) getOutputStream( )

(c) getBinaryStream( )

(d) getWriter( )

Answer: b

Q. 19 is the first Phase of Servlet Life cycle.

(a) service( )

(b) init( )

(c) destroy( )

(d) Both B & C

Answer: b

Q. 20 How many copies of a JSP page can be in memory at a time?

(a) 1

(b) 2

(c) 3

(d) Unlimited

Answer: a

Q. 21 Which method is used to specify before any lines that used the PrintWriter?

(a) setPageType( )

(b) setContextType( )

(c) setContentType( )

(d) setResponseType( )

Answer: c

Q. 22 is used to read data from a client request.

(a) ServletResponse

(b) ServletRequest

(c) Servlet

(d) ServletConfig

Answer: b

Q. 23 The following methods belongs to the life cycle methods of the servlet.

(a) init( )

(b) service( )

(c) destroy( )

(d) All of the above



Answer: d

Q. 24 Java servlet

(i) is a key component of the server side java development.

(ii) is a small pluggable extension to a server that enhances functionality

(iii) runs only in windows OS

(iv) allows developers to customize any java enabled server

(a) i, ii and iii are true

(b) i,iii and iv are true

(c) ii,iii and iv are true

(d) i,ii and iv are true

Answer: d

Q. 25 Servlet lifecycle has states.

(a) Two

(b) Three

(c) Four

(d) Five



Answer: b

Q. 26 JSP life cycle includes number of phases.

(a) Two

(b) Three

(c) Four

(d) Five

Answer: d

Q. 27 How to send data in get method?

(a) using GET method in request

(b) using Requesting URL

(c) using Response URL

(d) using URL

Answer: a

Q. 28 JSP life cycle includes following

(a) Translation Phase

(b) Compilation Phase

(c) Request handling phase

(d) All of these

Answer: d

Q. 29 JSP stands for .

(a) Java Service Provider

(b) Java Server Path

(c) Java Server Pages

(d) Java Server Program

Answer: c

Q. 30 The authentication mechanism in the servlet specification uses a technique called ?

(a) Role Based Authentication

(b) Form Based Authentication

(c) Both a & b

(d) None of the above

Answer: c



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### Conclusion:

In conclusion, excelling in the MSBTE Exam 22517 for Advanced Java Programming requires a strategic and well-rounded approach to exam preparation. The AJP MCQs play a pivotal role in this process, testing not only theoretical knowledge but also problem-solving abilities. Leveraging the resources provided by msbteallclear.com can significantly enhance a student's chances of success by offering comprehensive solutions and guidance. As the exam date approaches, computer engineering students are encouraged to make the most of this valuable online platform to secure a strong foundation in Advanced Java Programming.

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