Scheme – G
Sample Question Paper Unit Test 1

Course Name: - Computer Engineering Group
Course Code:- CO/CD/CM/CW/IF
Semester: - Sixth
Subject Title: - Advanced Java Programming
Marks: - 25 Marks

17625

Q 1. Which of the following methods can be used to remove java.awt.Componenr object from display?
   1M
   A. hide()
   B. disappear()
   C. remove()
   D. delete()

Q2. What are controls or components?
   1M
   A. Controls or components allow users to interact with application
   B. Controls or components do not allow users to interact with users
   C. Controls or components allow users to interact with users
   D. Controls or components allow application to interact with user

Q3. What are the subclasses of the Container class?
   1M
      A. Windows, Panel, ScrollPane
      B. ScrollPane, Vector, String
      C. Thread, Vector, String
      D. Applet, InetAddress, Vector

Q4. Which object is needed to group Checkboxes to make them exclusive?
   1M
   A. CheckboxGroup
   B. Checkbox
   C. RadioButton
   D. TextField

Q5. What is an event in delegation event model used by Java programming language? 1M

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

b) An event is an object that describes a state change in processing.

c) An event is an object that describes any change by the user and system.

d) An event is a class used for defining object, to create events.

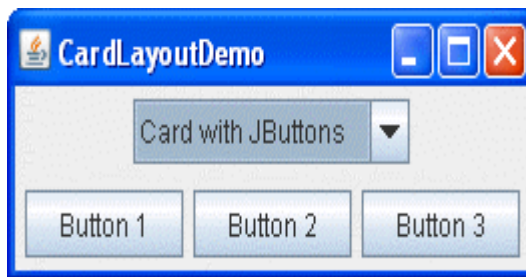**Q6. Which of these methods are used to register a mouse motion listener?** 1M
a) addMouse()
b) addMouseListener()
c) addMouseMotionListner()
d) eventMouseMotionListener()

Q.7 Which of these methods can be used to determine the type of event? 1M
a) getID()
b) getSource()
c) getEvent()
d) getEventObject()

Q8. **Which components are needed to get above shown output**

2M
    A. TextField, Label
    B. List, Button
    C. Choice, Button
    D. Button, TextField

Q9. What components will be needed to get following output? `   2M

    A. Label, TabbedPane, CheckBox
    B. TabbedPane, List, Applet
    C. Panel, TabbedPane, List
    D. Applet, TabbedPane, Panel

Q10. Select the missing statement in given code   **2M**

```
// Demonstrate the mouse event handlers.
import java.awt.*;
import java.applet.*;
/*
<applet code="mouse" width=300 height=100>
</applet>
*/

public class  mouse extends Applet
implements MouseListener, MouseMotionListener
 {
String msg = "";
intmouseX = 0, mouseY = 0; // coordinates of mouse
public void init() {
}
// Handle mouse clicked.
public void mouseClicked(MouseEvent me)
 {

mouseX = 0;
mouseY = 10;
msg = "Mouse clicked.";
repaint();
}
// Handle mouse entered.
public void mouseEntered(MouseEvent me)
 {

mouseX = 0;
mouseY = 10;
msg = "Mouse entered.";
repaint();
}
// Handle mouse exited.
public void mouseExited(MouseEvent me)
 {

mouseX = 0;
mouseY = 10;
msg = "Mouse exited.";
repaint();
}
// Handle button pressed.
```

```java
public void mousePressed(MouseEvent me)
 {

mouseX = me.getX();
mouseY = me.getY();
msg = "Down";
repaint();
}
// Handle button released.
public void mouseReleased(MouseEvent me)
 {

mouseX = me.getX();
mouseY = me.getY();
msg = "Up";
repaint();
}
// Handle mouse dragged.
public void mouseDragged(MouseEvent me)
 {

mouseX = me.getX();
mouseY = me.getY();
msg = "*";
showStatus("Dragging mouse at " + mouseX + ", " + mouseY);
repaint();
}
// Handle mouse moved.
public void mouseMoved(MouseEvent me)
{
showStatus("Moving mouse at " + me.getX() + ", " + me.getY());
}
// Display msg in applet window at current X,Y location.
public void paint(Graphics g)
 {
g.drawString(msg, mouseX, mouseY);
}
}
```

a) addMouseListener(this);

b) addMouseListener(this);
addMouseMotionListener(this);
import java.awt.event.*;

c)   addMouseListener();
d)   all of above

Q11. Which of these events will be notified if scroll bar is manipulated?   2M
a) ActionEvent
b) ComponentEvent
c) AdjustmentEvent
d) WindowEvent

**Q12. Select output for given code**   2M

```
importjava.awt.event.*;
import java.awt.*;
importjava.applet.*;
public class checkbackg extends Applet implements ItemListener
{
Checkbox m1,m2,m3;
public void init()
{
m1=new Checkbox("A");
m2=new Checkbox("B");
m3=new Checkbox("C");
add(m1);
add(m2);
add(m3);
m1.addItemListener(this);
m2.addItemListener(this);
}

public void itemStateChanged(ItemEventie)
{
if(ie.getSource()==m1)
setBackground(Color.red);
if(ie.getSource()==m2)
setBackground(Color.green);
}
}
/*<applet code=checkbackg.class height=150 width=150>

</applet>*/
```
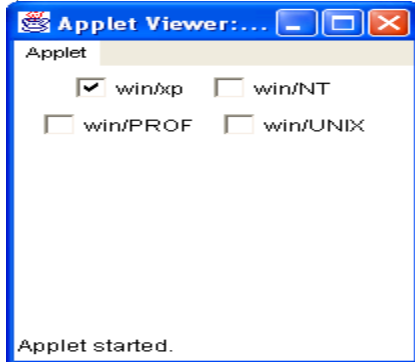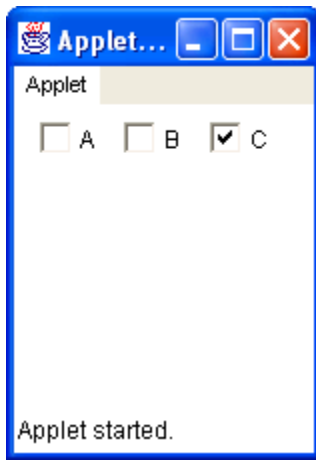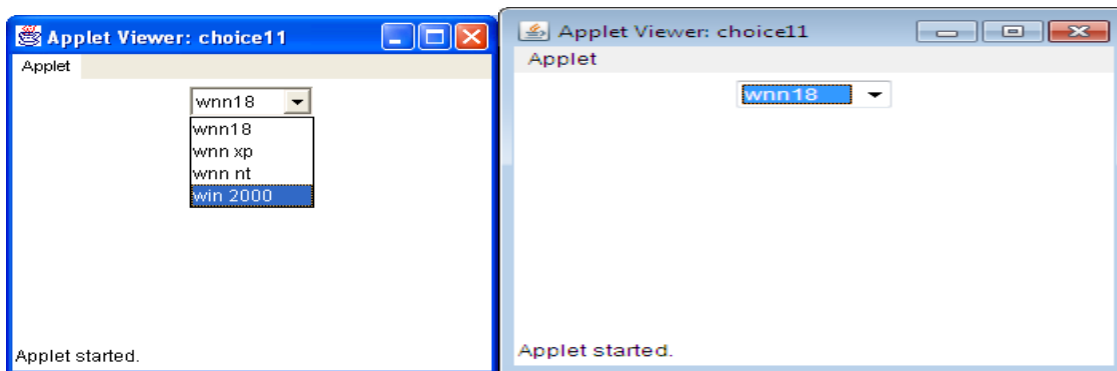
a)
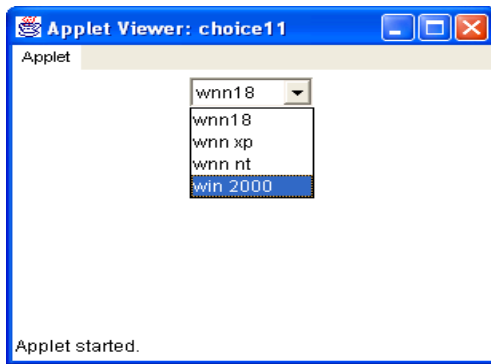
b)

c)

d)

Q13. Select proper code for given output 2M

a)   import java.awt.*;
import java.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
add(os);
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/

b)

import java.awt.*;
import java.applet.*;
public class choice11 extends Applet

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```
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
add(os);
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```

c)
```
import java.awt.*;
import java.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
add(os);
}
}
```

d)
```
import java.awt.*;
import java.applet.*;
public class choice11 extends Applet
{


public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```
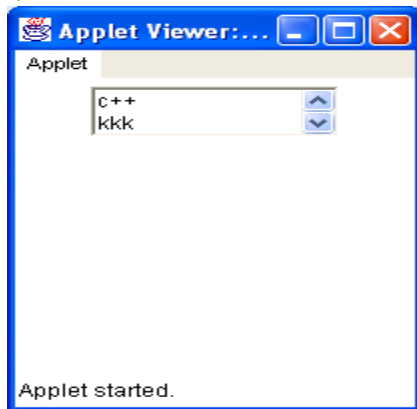
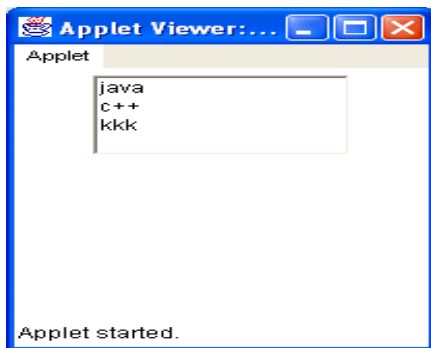**Q14. select the proper output for following code** 2M

```
import java.awt.*;
import java.applet.*;
public class list2 extends Applet
{
public void init()
{
List l= new List(2,true);
l.add("java");
l.add("c++");
l.add("kkk");
add(l);
}
}
/*<applet code=list2.class height=200 width=200>
</applet>*/
```

a)

b)

c)
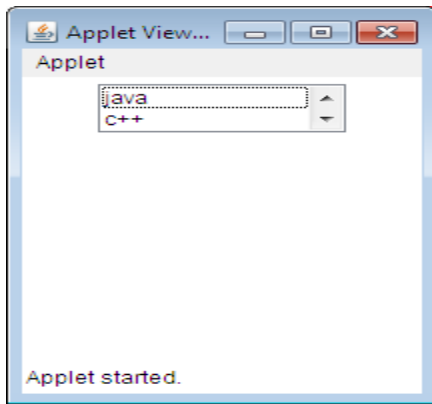
d)

Q15. Debug the following program   2M

```java
import java.awt.*;
import javax.swing.*;
/*
<applet code="JTableDemo" width=400 height=200>
</applet>
*/
public class JTableDemo extends JApplet
 {
public void init() {
Container contentPane = getContentPane();
contentPane.setLayout(new BorderLayout());
final String[] colHeads = { "emp_Name", "emp_id", "emp_salary" };
final Object[][] data = {
{ "Ramesh", "111", "50000" },
{ "Sagar", "222", "52000" },
{ "Virag", "333", "40000" },
{ "Amit", "444", "62000" },
{ "Anil", "555", "60000" },
```

```
};
JTable table = new JTable(data);
int v = ScrollPaneConstants.VERTICAL_SCROLLBAR_AS_NEEDED;
int h = ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED;
JScrollPane jsp = new JScrollPane(table, v, h);
contentPane.add(jsp, BorderLayout.CENTER);
}
}
```

a. **Error in statement in which JTable is created**
b. **Error in statement in which JScrollPane is created**
c. **Error in statement in which applet tag is declared**
d. **None of the above**

Q16. What will be the output of the following program? **2M**

```
import java.awt.*;
import java.applet.*;
public class LayoutDemo5 extends Applet
{
public void init()
{
int i,j,k,n=4;

setLayout(new BorderLayout());
Panel p1=new Panel();
Panel p2=new Panel();

p1.setLayout(new FlowLayout());
p1.add(new TextField(20));
p1.add(new TextField(20));

p2.setLayout(new GridLayout(5,3));
p2.add(new Button("OK"));
p2.add(new Button("Submit"));
add(p1,BorderLayout.EAST);
add(p2,BorderLayout.WEST);
}
}
/*<applet code=LayoutDemo5.class width=300 height=400>
</applet>*/
```
A. The output is obtained in Frame with two layouts: Frame layout and Flow Layout.
B. The output is obtained in Applet with two layouts: Frame layout and Flow Layout.
C. The output is obtained in Applet with two layouts: Frame layout and Border Layout.
D. The output is obtained in Applet with two layouts: Border layout and Flow Layout.

Scheme – G
Sample Question Paper Unit Test 2

Course Name: - Computer Engineering Group
Course Code:- CO/CD/CM/CW/IF
Semester: - Sixth
Subject Title: - Advanced Java Programming
Marks: - 25 Marks

17625

Q 1.Which of these methods of DatagramPacket is used to find the port number? **1M**
   A. port()
   B. getPort()
   C. findPort()
   D. recievePort()

Q2.In the format of URL what is the last part? **1M**
   A. Protocol.
   B. File path.
   C. Port number.
   D. Host name.

Q3. . ………………… is a full form of SQL. **1M**
   A. Standard query language
   B. Sequential query language
   C. Structured query language
   D. Server side query language

Q4.Prepared Statement object in JDBC used to execute........... queries. **1M**

   A. Executable
   B. Simple
   C. High level
   D. Parameterized

Q5.What is servlet? **1M**
   A. Servlets are small program used for developing and executing web applications.
   B. Servlets are small program used for database applications
   C. Servlets are used for intranet programming
   D. Servlets are programs written in C and C++

Q6.Which of these is a return type of getAddress() method of DatagramPacket class?

2M

A. DatagramPacket
B. DatagramSocket
C. InetAddress
D. ServerSocket

Q.7 Select the proper method to retrieve the host name of local machine.   **2M**

A. static InetAddressgetLocalHost( )throws UnknownHostException
B. static InetAddressgetByName(String hostName)throws UnknownHostException
C. static InetAddress[ ] getAllByName(String hostname throws UnknownHostException
D. string getHostAddress()

Q8. Select the proper constructor of URL class.   **2M**
A. URL(String protocolName, String hostName, intport, String path)
B. URL(String urlSpecifier)
C. URL(String protocolName, String hostName, String path)
D. All of above

Q9.Rearrange the steps to connect to the database in SQL.   **2M**
A. Create the connection object
B. Execute the query
C. Close the connection object
D. Register the driver class
E. Create the statement object

    A.   a-b-c-d-e
    B.   d-a-e-b-c
    C.   e-d-c-b-a
    D.   d-a-c-b-e

Q10.What is meaning of following statement.
    Res.setContentType("text/html");   **2M**

A. Browser will interpret content as source code.
B. Browser will take contents as plain text
C. Browser will interpret content as HTML source code.
D. Browser will interpret content as Java source code.

Q11. Consider the following program what will be displayed in the output?   **2M**
import java.net.*;
class myAddress
 {
 public static void main (String args[])
 {

```
   try
  {
 InetAddress address = InetAddress.getLocalHost();
 System.out.println(address);
 }
 catch (UnknownHostException e)
 {
 System.out.println("Could not find this computer's address.");
 }
 }
 }
```

    A. The internet address of the server
    B. The internet address of the client
    C. The internet address of the host
    D. The internet address of any other PC

Q12. Choose the correct option to establish a connection to database named student and display its contents.   **2M**

A.
```
 import java.sql.*;
  class Ddemo1
  {
    public static void main(String args[]) throws Exception
    {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
    Statement s=c.createStatement();
    ResultSet rs=s.executeQuery("select *from StudTable");
    System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
    while(rs.next())
    {
    System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
    }
    s.close();
    c.close();
    }
   }
```
B.
```
import java.sql.*;
  class Ddemo1
  {
    public static void main(String args[]) throws Exception
```

```java
    {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
    ResultSet rs=s.executeQuery("select *from StudTable");
    System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
    while(rs.next())
    {
    System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
    }
    s.close();
c.close();
}
}
```

C.
```java
  import java.sql.*;
  class Ddemo1
 {
    public static void main(String args[]) throws Exception
    {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    Statement s=c.createStatement();
    ResultSet rs=s.executeQuery("select *from StudTable");
    System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
    while(rs.next())
    {
    System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
    }
    s.close();
    c.close();
    }
}
```

D.
```java
 import java.sql.*;
  class Ddemo1
 {
  public static void main(String args[]) throws Exception
  {
  Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
  Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
  Statement s=c.createStatement();
  ResultSet rs=s.executeQuery("select *from StudTable");
```

```
System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
while(rs.next())
{
System.out.println(rs.getString(1)+" \t "+rs.getInt(1)+" \t \t"+rs.getDouble(1));
}
s.close();
c.close();
}
}
```

Q13.Consider the following program   **2M**

```
import java.sql.*;
public class db15
{
public static void main(String args[])throws Exception
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c =DriverManager.getConnection("jdbc:odbc:MyDSN","","");
PreparedStatement s=c.prepareStatement( "update db3 set Name=? where Roll_no=?");
Statement s=c.createStatement( );
s.setString(1,*);
s.setString(2,*);
s.setString(3,*);
s.executeUpdate();

ResultSet rs=s.executeQuery("select* from db3");
System.out.println("Name"+"\t"+"Roll no"+"\t"+"Avg");
while(rs.next())
{
System.out.println(rs.getString(1)+"\t"+rs.getInt(2)+"\t"+rs.getDouble(3));
}
s.close();
c.close();
}
}
```

What should be the input in the position of '*'
- A. Command line argument
- B. Array
- C. Vector
- D. Integer

Q14.Choose the correct syntax for getConnection() method.   **2M**
- A. public static Connection getConnection(String url, String password) throws SQLException
- B. public static Connection getConnection(String name, String password) throws SQLException

C. public static Connection getConnection(String url, String name, String password) throws SQLException
D. public static Connection getConnection(String url, String name) throws SQLException

Q15. Observe the code and select the proper output.   **2M**

Contents Of ColorGet.html File :

```
<html>
<body>
<center>
<form name="Form1"
action="http://localhost:8080/servlets-examples/ColorGetServlet">
<B>Color:</B>
<select name="color" size="1">
<option value="Red">Red</option>
<option value="Green">Green</option>
<option value="Blue">Blue</option>
</select>
<br><br>
<input type=submit value="Submit">
</form>
</body>
</html>
```

Contents Of ColorGetServlet.java File :

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class ColorGetServlet extends HttpServlet
{
        public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException
        {
                String color = request.getParameter("color");
                response.setContentType("text/html");
                PrintWriter pw = response.getWriter();
                pw.println("<B>The selected color is: ");
                pw.println(color);
                pw.close();
        }
}
```

Output of above program is
Opening : ColorGet.html File
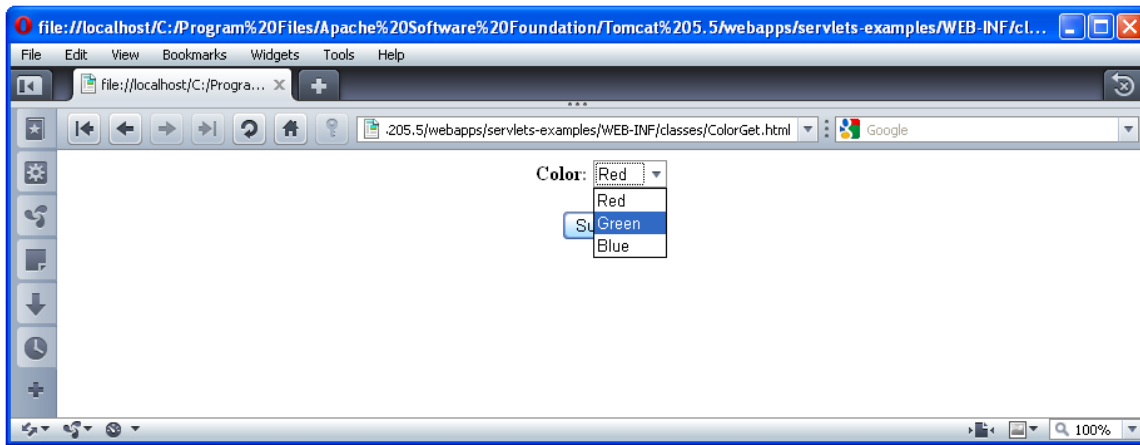
After clicking on Submit button :

The selected color is: Green
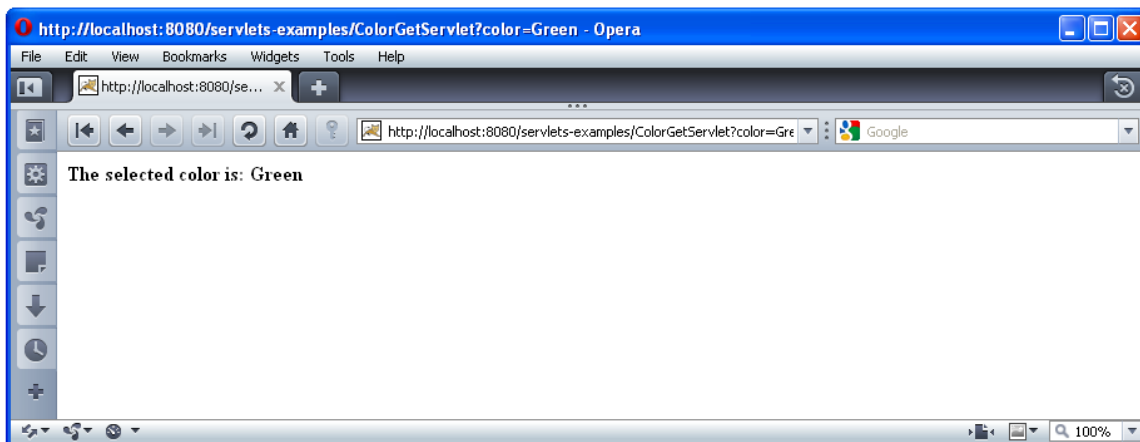
A. Output shown is correct
B. Output shown is not correct
C. Output shown has some errors
D. Output will be something other than above output

16. A JSP page called test.jsp is passed a parameter name in the URL using `http://localhost/test.jsp?name="John"`. The test.jsp contains the following code.

```
<%! String myName=request.getParameter();%>
<% String test= "welcome" + myName; %>
<%= test%>
```

A. The program prints "Welcome John"
B. The program gives a syntax error because of the statement
   ```
   <%! String myName=request.getParameter();%>
   ```
C. The program gives a syntax error because of the statement
   ```
   <% String test= "welcome" + myName; %>
   ```
D. The program gives a syntax error because of the statement
   ```
   <%= test%>
   ```

MSBTE Sample Question Paper

Course Name: Computer Engineering Group

Course Code: CO/CM/CD/IF/CW   **Semester: SIXTH**

Subject:- ADVANCED JAVA PROGRAMMING   **Subject Code :-(17085)**

Marks:- 100   **Hours :- 2 Hrs**

Remember Level   **1M**

Chapter 1

1. **Which class can be used to represent the Checkbox with a textual label that can appear in a menu?**
A.   MenuBar
B.   MenuItem
C.   CheckboxMenuItem
D.   Menu

2. **Which are various AWT controls from following?**
A.   Labels, Push buttons, Check boxes, Choice lists.
B.   Text components, Threads, Strings, Servelts, Vectors
C.   Labels, Strings, JSP, Netbeans, Sockets
D.   Push buttons, Servelts, Notepad, JSP

3. **JPanel and Applet use _____ as their default layout**
A.   FlowLayout
B.   GridLayout
C.   BorderLayout
D.   GridBagLayout

4. **Which of the following is true about AWT and Swing Component?**
A.   AWT Components create a process where as Swing Component create a thread
B.   AWT Components create a thread where as Swing Component create a process
C.   Both AWT and Swing Component create a process
D.   Both AWT and Swing Component create a thread

5. **Which of these methods cannot be called on JLabel object?**
A.   setIcon()
B.   getText()
C.   setLabel()
D.   setBorderLayout()

6. **_____ pane can be used to add component to container**
A.   Glass
B.   Cotent
C.   Container
D.   All of above

7**. Which of the following is not a constructor of JTree**
A.   JTree(Object obj[])
B.   JTree(TreeNodetn)
C.   JTree(Vector v)
D.   JTree(int x)

8**. Swing Components are**_____
A.   Platform dependent
B.   Platform Independent
C.   Both a & b
D.   Platform oriented

Chapter 2

1. Which of these methods is used to obtain the object that generated a WindowEvent?
A.   getMethod()
B.   getWindow()
C.   getWindowEvent()
D.   getWindowObject()

2. Which of these methods is used to get x coordinate of the mouse?
A.   getX()
B.   getXCoordinate()
C.   getCoordinateX()
D.   getPointX()

3. Which of these are constants defined in WindowEvent class?
A.   WINDOW_ACTIVATED
B.   WINDOW_CLOSED
C.   WINDOW_DEICONIFIED
D.   All of the mentioned

4. Which of these is super class of WindowEvent class?
A.   WindowEvent
B.   ComponentEvent
C.   ItemEvent
D.   InputEvent

Chapter 3
1. Which of these is a return type of getAddress method of DatagramPacket class?
A.   DatagramPacket
B.   DatagramSocket
C.   InetAddress
D.   ServerSocket

2. In the format for defining the URL what is the last part?
A.   Protocol.
B.   File path.
C.   Port number.

D.   Host name.

3. What is the first part of URL address?

A.   Host name.
B.   Port number.
C.   File path.
D.   Protocol.

4. Which of these methods of DatagramPacket is used to obtain the byte array of data contained in a datagram?

A.   getData()
B.   getBytes()
C.   getArray()
D.   recieveBytes()

Chapter 4

1. Native – protocol pure Java converts ……….. in to the ………… used by DBMSs directly.

A.   JDBC calls, network protocol
B.   ODBC class, network protocol
C.   ODBC class, user call
D.   JDBC calls, user call

2. The JDBC-ODBC bridge driver resolves……….. and makes equivalent ………..

A.   JDBC call, ODBC call
B.   ODBC call, ODBC call
C.   ODBC call, JDBC call
D.   JDBC call, JDBC call

3. For execution of DELETE SQL query in JDBC, ... method must be used.

A.   executeQuery()
B.   executeDeleteQuery()
C.   executeUpdate()
D.   executeDelete()

4. Prepared Statement object in JDBC used to execute........... queries.

A.   Executable
B.   Simple
C.   High level
D.   Parameterized

Chapter 5

1. Name the class that includes the getSession() method that is used to get the HttpSession object

A.   HttpServletRequest
B.   HttpServletResponse
C.   SessionContext

D.   SessionConfig

2. A user types the URL http://www.msbte.com/result.php. Which HTTP request gets generated? Select the one correct answer
A.   GET method
B.   POST method
C.   HEAD method
D.   PUT method

3. 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

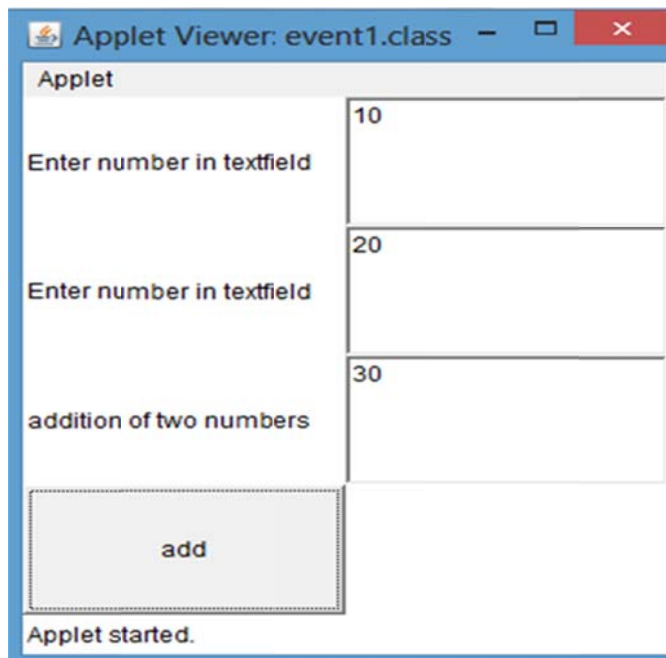**4. in a web application, running in a webserver, who is responsible for creating request and response object,**
A.   Web server
B.   Servlet
C.   Container
D.   Client

Understand Level   2M

Chapter 1
   1. Which components are used in the following output?

A.   Label, TextField, Button

B. Applet, Label
C. Applet, Button
D. Grid Layout, Label, Button

2. What is the purpose of JTable?
A. JTable object displays rows of data.
B. JTable object displays columns of data.
C. JTable object displays rows and columns of data.
D. JTable object displays data in Tree form.

3. Which method is used to display icon on a component?
A. rollOverIcon(ImageIcon i)
B. setIcon(ImageIcon i)
C. displayIcon(ImageIcon i)
D. removeIcon (ImageIconi)

4. Which components will be needed to get following output?

A. Label, TabbedPane, CheckBox
B. TabbedPane, List, Applet
C. Panel, TabbedPane, List
D. Applet, TabbedPane, Panel

Chapter 2

1. Select the missing statement in given code

```
importjava.awt.*;
importjava.applet.*;
/*
<applet code="mouse" width=300 height=100>
</applet>
*/
public class  mouse extends Applet implements MouseListener, MouseMotionListener
 {
String msg = "";
intmouseX = 0, mouseY = 0
public void init()
 {
```

```java
}
public void mouseClicked(MouseEvent me)
 {
mouseX = 0;
mouseY = 10;
msg = "Mouse clicked.";
repaint();
}
public void mouseEntered(MouseEvent me)
 {
mouseX = 0;
mouseY = 10;
msg = "Mouse entered.";
repaint();
}
public void mouseExited(MouseEvent me)
 {
mouseX = 0;
mouseY = 10;
msg = "Mouse exited.";
repaint();
}
public void mousePressed(MouseEvent me)
 {
mouseX = me.getX();
mouseY = me.getY();
msg = "Down";
repaint();
}
public void mouseReleased(MouseEvent me)
 {
mouseX = me.getX();
mouseY = me.getY();
msg = "Up";
repaint();
}
public void mouseDragged(MouseEvent me)
 {
mouseX = me.getX();
mouseY = me.getY();
msg = "*";
showStatus("Dragging mouse at " + mouseX + ", " + mouseY);
repaint();
}
public void mouseMoved(MouseEvent me)
{
showStatus("Moving mouse at " + me.getX() + ", " + me.getY());
}
public void paint(Graphics g)
```

```
 {
g.drawString(msg, mouseX, mouseY);
}
}
```
a) **addMouseMotionListener(this);**
b) **addMouseListener(this);**
c) **import java.awt.event.*;**
d) **all of above**

    2. **Select the proper output for following code**

```
importjava.awt.*;
importjava.applet.*;
public class list2 extends Applet
{
public void init()
{
List l= new List(2,true);
l.add("java");
l.add("c++");
l.add("kkk");
add(l);
}
}
/*<applet code=list2.class height=200 width=200>
</applet>*/
```
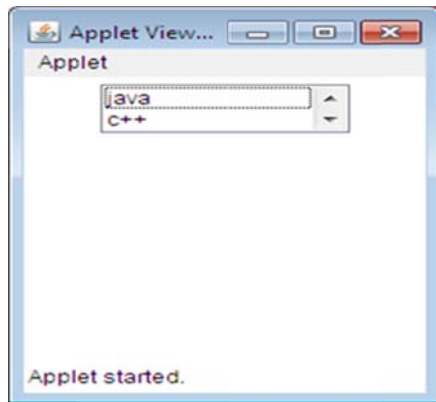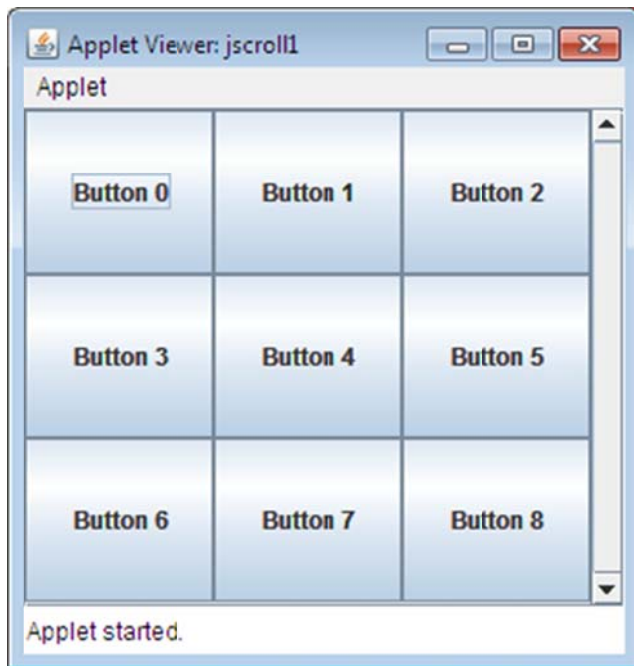
      a)

      b)

c)

d)

3. **To get the following output complete the code given below.**

```
import java.awt.*;
import javax.swing.*;
/*
<applet code="jscroll" width=300 height=250>
</applet>
*/
public class jscroll extends JApplet
 {
public void init()
 {
Container contentPane = getContentPane();
contentPane.setLayout(new BorderLayout());
}
}
int v = ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS;
int h = ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED;
JScrollPanejsp = new JScrollPane(jp, v, h);
contentPane.add(jsp, BorderLayout.CENTER);
}
}
```

A) Container contentPane = getContentPane();
   contentPane.setLayout(new GridLayout());

B) JPaneljp = new JPanel();
   jp.setLayout(new GridLayout(20, 20));

C) int b = 0;
   for(int i = 0; i < 20; i++) {
   for(int j = 0; j < 20; j++) {

```
      jp.add(new JButton("Button " + b));
      ++b;

 D) JPaneljp = new JPanel();
    jp.setLayout(new GridLayout(3,3));
    int b = 0;
    for(int i = 0; i <3; i++)
 {
    for(int j = 0; j <3; j++)
 {
    jp.add(new JButton("Button " + b));
    ++b;
```

Chapter 3

1. Select the proper method to retrieve the host name of local machine

A.   static InetAddressgetLocalHost( )throws UnknownHostException
B.   static InetAddressgetByName(String hostName)throws UnknownHostException
C.   static InetAddress[ ] getAllByName(String hostname throws
UnknownHostException
D.   string getHostAddress()

2.   Select the proper constructor of URL class

A.   URL(String protocolName, String hostName, intport, String path)
B.   URL(String urlSpecifier)
C.   URL(String protocolName, String hostName, String path)
D.   All of above

3.   Select the proper constructor of serversocket
A.   ServerSocket(intport, intmaxQueue)
B.   Socket(InetAddressipAddress, intport)
C.   Socket(int port)
D.   ServerSocket()

4. What will be displayed in the output?
```
import java.net.*;
classmyAddress
 {
public static void main (String args[])
 {
try
 {
InetAddress address = InetAddress.getLocalHost();
System.out.println(address);
 }
catch (UnknownHostException e)
```

```
 {
System.out.println("Could not find this computer's address.");
}
}
}
}
```

A.   The internet address of the server
B.   The internet address of the client
C.   The internet address of the host
D.   The internet address of any other PC

Chapter 4

1. executeQuery() method returns_____
A.   Single row
B.   ResultSet object
C.   Single Column
D.   Database Table

2. PreparedStatement interface extends_____ interface
A.   Connection
B.   Statement
C.   ResultSet
D.   Driver

3. executeUpdate() method returns_____
A.   Single row
B.   ResultSet object
C.   Integer
D.   Single Column

Chapter 5

1. Identify correct syntax of service() method of servlet class
A.   void service(ServletRequestreq, ServletResponse res)
B.   void service(ServletResponse res ServletRequestreq,)
C.   void service(ServletRequestreq, ServletRequestreq)
D.   void service(ServletResponsereq, ServletResponse res)

2. Advantage of JSP over Servlet is_____
A.   JSP is web page and servlets are Java programs
B.   JSP is web page scripting language and servlets are Java programs
C.   JSP is web page scripting language and servlets are simple programs
D.   JSP is program and servlets are scripting language

3. Difference between doGet() and doPost() methods is_____. Select any of given options

A.   In doGet() the parameters are appended to the URL and sent along with header information.

B.   In doPost(),will send the information through a socket back to the webserver and it won't show up in the URL bar.

C.   doGet() is a request for information;

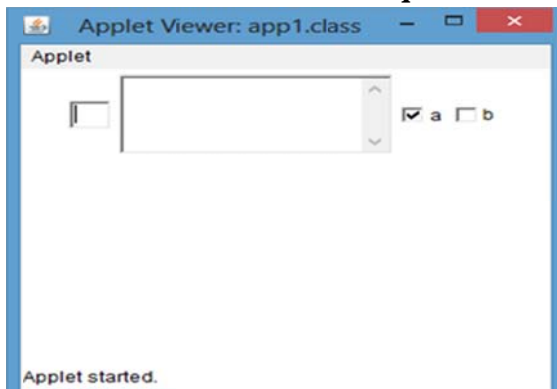D.   doPost() provides information (such as placing an order) that the server is expected to remember

A.   **All above are valid differences**

B.   **Only A and B**

C.   **Only C and D**

D.   **A, B, C are valid differences.**

Apply Level   2M

Chapter 1

1.   Choose the correct sequence for the following output

A.
importjava.awt.*;
importjava.applet.*;
public class app1 extends Applet
{
public void init()
{

```
TextFieldtf = new TextField();
TextArea t1=new TextArea(3,20);
Checkbox c=new Checkbox("a",true);
Checkbox c1=new Checkbox("b",false);
add(t1);
add(c);
add(tf);
add(c1);
}
}
/*<applet code=app1.class width=200 height=200>
</applet>*/
B.
importjava.awt.*;
importjava.applet.*;
public class app1 extends Applet
{
public void init()
{
TextFieldtf = new TextField();
TextArea t1=new TextArea(3,20);
Checkbox c=new Checkbox("a",true);
Checkbox c1=new Checkbox("b",false);
add(tf);
add(t1);
add(c);
add(c1);
}
}
/*<applet code=app1.class width=200 height=200>
</applet>*/

C.
importjava.awt.*;
importjava.applet.*;
public class app1 extends Applet
{
public void init()
{
TextFieldtf = new TextField();
TextArea t1=new TextField();
Checkbox c=new Checkbox("a",true);
Checkbox c1=new Checkbox("b",false);
```

```
add(tf);
add(t1);
add(c);
add(c1);
}
}
```
D.   All of above

2. **Consider the following program. Find which statement contains error.**

```
importjava.awt.*;
importjavax.swing.*;
/*
<applet code="JTableDemo" width=400 height=200>
</applet>
*/
public class JTableDemo extends JApplet
 {
public void init() {
Container contentPane = getContentPane();
contentPane.setLayout(new BorderLayout());
final String[] colHeads = { "emp_Name", "emp_id", "emp_salary" };
final Object[][] data = {
{ "Ramesh", "111", "50000" },
{ "Sagar", "222", "52000" },
{ "Virag", "333", "40000" },
{ "Amit", "444", "62000" },
{ "Anil", "555", "60000" },
};
JTable table = new JTable(data);
int v = ScrollPaneConstants.VERTICAL_SCROLLBAR_AS_NEEDED;
int h = ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED;
JScrollPanejsp = new JScrollPane(table, v, h);
contentPane.add(jsp, BorderLayout.CENTER);
}
}
```
A. Error in statement in which JTable is created
B. Error in statement in which JScrollPane is created
C. Error in statement in which applet tag is declared
D. None of the above

3.   **Select the proper command to run the following code**
```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.applet.*;
```

```
/*
<applet code="combodemo11" width=300 height=100>
</applet>
*/
public class combodemo11 extends JApplet
{
public void init()
{
Container co = getContentPane();
co.setLayout(new FlowLayout());
JComboBoxjc=new JComboBox();
jc.addItem("cricket");
jc.addItem("football");
jc.addItem("hockey");
jc.addItem("tennis");
co.add(jc);
}
}
```

   A. Javac combodemo11.java
   B. java combodemo11
   C. appletviewer combodemo11.java
   D. All of above

3. **Observe the following code.**
   What will be the output of the program?

```
importjava.awt.*;
importjava.applet.*;
public class LayoutDemo5 extends Applet
{
public void init()
{
inti,j,k,n=4;
setLayout(new BorderLayout());
Panel p1=new Panel();
Panel p2=new Panel();

p1.setLayout(new FlowLayout());
p1.add(new TextField(20));
p1.add(new TextField(20));

p2.setLayout(new GridLayout(5,3));
p2.add(new Button("OK"));
p2.add(new Button("Submit"));
```
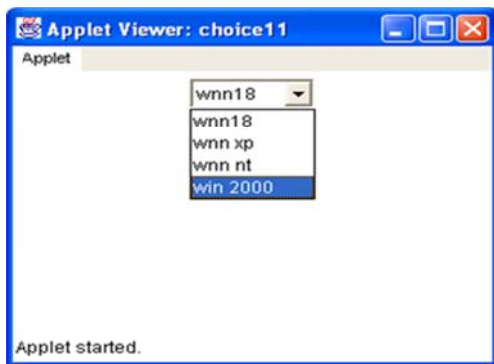
```
add(p1,BorderLayout.EAST);
add(p2,BorderLayout.WEST);
}
}
/*<applet code=LayoutDemo5.class width=300 height=400>
</applet>*/
```

E. The output is obtained in Frame with two layouts: Frame layout and Flow Layout.
F. The output is obtained in Applet with two layouts: Frame layout and Flow Layout.
G. The output is obtained in Applet with two layouts: Frame layout and Border Layout.
H. The output is obtained in Applet with two layouts: Border layout and Flow Layout.

Chapter 2

1.   Select proper code for given output

A.
```
importjava.awt.*;
importjava.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
add(os);
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```

B.
```
importjava.awt.*;
importjava.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
add(os);
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```

C.
```
importjava.awt.*;
importjava.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
add(os);
}
}
```

D.
```
importjava.awt.*;
importjava.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```

**2. Select the missing statement in the program to get the following output**


```
importjava.awt.*;
importjava.awt.event.*;
importjavax.swing.*;
/*
<applet code="combodemo" width=300 height=100>
</applet>
*/
public class combodemo extends JApplet
implementsItemListener
 {
JLabeljl;
ImageIconfrance, germany, italy, japan;
public void init()
 {
Container contentPane = getContentPane();
contentPane.setLayout(new FlowLayout());
JComboBoxjc = new JComboBox();
jc.addItem("France");
jc.addItem("Germany");
jc.addItem("Italy");
jc.addItem("Japan");
jc.addItemListener(this);
contentPane.add(jc);
contentPane.add(jl);
}
public void itemStateChanged(ItemEventie)
 {
String s = (String)ie.getItem();
jl.setIcon(new ImageIcon(s + ".gif"));
```

```
    }
}
```

A.   jl = new JLabel(new ImageIcon("star.gif"));
B.   jl = new JLabel("star.gif");
C.   jl = new JLabel(ImageIcon("star.gif"));
D.   JLabel(new ImageIcon("star.gif"));

3. **Select the missing statement in the program for following output**
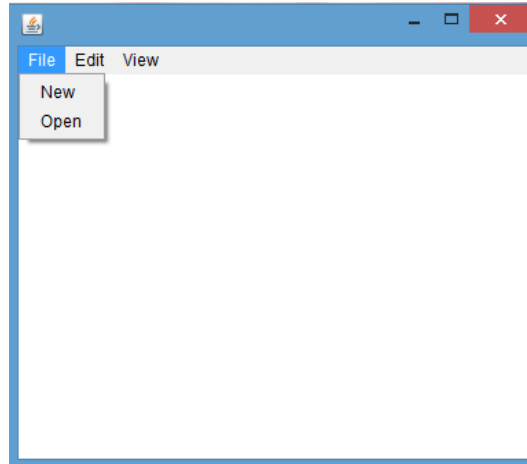


```
import java.awt.*;
public class MenuDemo extends Frame
{
public static void main(String args[])
{
MenuDemo m = new MenuDemo();
m.setVisible(true);
MenuBar mbr = new MenuBar();
m.setMenuBar(mbr);
Menu filemenu = new Menu("File");
Menu editmenu = new Menu("Edit");
Menu viewmenu = new Menu("View");
mbr.add(filemenu);
mbr.add(editmenu);
MenuItem new1 = new MenuItem("New");
MenuItem open1 = new MenuItem("Open");
filemenu.add(new1);
filemenu.add(open1);
}
}
```

A. mbr.add(view);
B. mbr.add(menu);

C. mbr.add(vieweditmenu);

D. mbr.add(viewmenu);

4. Consider the following output. Find the missing statement in the program.
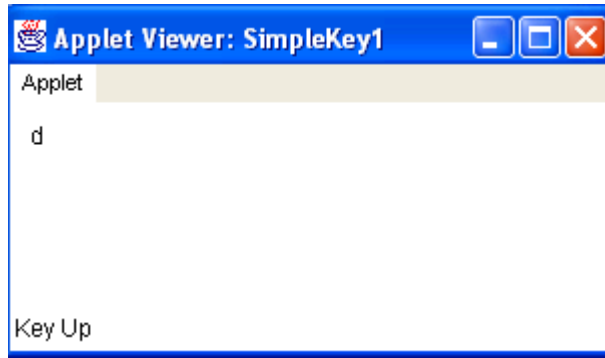

```java
import java.awt.*;
import java.awt.event.*;
import java.applet.*;
import javax.swing.*;
/*
<applet code="SimpleKey1" width=300 height=100>
</applet>
*/
public class SimpleKey1 extends JApplet
implements KeyListener
{
String msg = "";
int X = 10, Y = 20; public void init()
 {
addKeyListener(this);
requestFocus();
}
public void keyPressed(KeyEvent ke)
{
showStatus("Key Down");
}
public void keyReleased(KeyEvent ke)
{
showStatus("Key Up");
public void keyTyped(KeyEvent ke)
{
msg += ke.getKeyChar();
repaint();
}
public void paint(Graphics g)
{
g.drawString(msg, X, Y);
}
```

}
    A. Missing Semicolon

    B. }

    C. {

    D. ()

5. For the following code select the method that can be used to handle event.

```
importjava.awt.event.*;
import java.awt.*;
importjava.applet.*;
public class checkbackg extends Applet implements ItemListener
{
Checkbox m1,m2,m3;
public void init()
{
m1=new Checkbox("A");
m2=new Checkbox("B");
m3=new Checkbox("C");
add(m1);
add(m2);
add(m3);
m1.addItemListener(this);
m2.addItemListener(this);
}

public void _____(ItemEvent ie)
{
if(ie.getSource()==m1)
setBackground(Color.red);
if(ie.getSource()==m2)
setBackground(Color.green);
}
}
/*<applet code=checkbackg.class height=150 width=150>
</applet>*/
```

    A. actionPerformed(ActionEvent ae)

    B. itemStateChanged(ActionEvent ie)

    C. itemStateChanged(ItemEvent ie)

    D. adjustmentPerformed(AdjustmentEvent ae)

Chapter 3

1. Consider the following program
    What will be displayed in the output?

    import java.net.*;

```
class myAddress
 {
public static void main (String args[])
 {
try
 {
  InetAddress address = InetAddress.getLocalHost();
System.out.println(address);
 }
catch (UnknownHostException e)
 {
System.out.println("Could not find this computer's address.");
}
}
}
```

A.   The internet address of the server
B.   The internet address of the client
C.   The internet address of the host
D.   The internet address of any other PC

2. **Consider the following program**
   What correction should be done in the program to get correct output?
   import java.net.*;
   import java.io.*;

```
public class URLTest
{
public static void main(String args[]) throws MalformedURLException
{
URL url = new URL("http://www.msbte.com/download");
System.out.println("Protocol:"+ url1.getProtocol());
System.out.println("Port:"+ url1.getPort());
System.out.println("Host:"+ url1.getHost());
System.out.println("File:"+ url1.getFile());
}
}
```

A.   Exception type is wrong.
B.   Class should not be public.
C.   Creation of object is not correct.
D.   Use of created object not correct

Chapter 4
1. **Consider the following program.**
   What should be the correction done in the program to get correct output?
   import java.sql.*;
   class Ddemo1

```
{
public static void main(String args[]) throws Exception
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
Statement s=c.createStatement();
ResultSet rs=s.executeQuery("select *from StudTable");
System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
while(rs.next())
 {
System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
s.close();
c.close();
}
}
```

A. Missing semicolon
B. Missing {
C. Missing }
D. Missing statement.

2. **Consider the following program.**
   What should be the correction done in the program to get correct output?
   ```
   import java.sql.*;
   class Ddemo1
   {
   {
   Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
   Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
   Statement s=c.createStatement();
   ResultSet rs=s.executeQuery("select *from StudTable");
   System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
   while(rs.next())
    {
   System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
   }
   s.close();
   c.close();
   }
   }
   ```

A. Missing semicolon
B. Missing {
C. Missing }
D. Missing statement.

3. **Consider the following program.**
   What should be the correction done in the program to get correct output?

```java
import java.sql.*;
class Ddemo1
{
public static void main(String args[]) throws Exception;
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
Statement s=c.createStatement();
ResultSet rs=s.executeQuery("select *from StudTable");
System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
while(rs.next())
 {
System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
}
s.close();
c.close();
}
}
```

A.   Error in main()
B.   Error in loop
C.   Error in connection statement
D.   Error in close()

4.   Consider the following program.
What should be the correction done in the program to get correct output?
```java
class Ddemo1
{
public static void main(String args[]) throws Exception
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
Statement s=c.createStatement();
ResultSet rs=s.executeQuery("select *from StudTable");
System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
while(rs.next())
 {
System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
}
s.close();
c.close();
}
}
```

A. Missing semicolon
B. Missing {
C. Missing }
D. Missing package statement.

5. Consider the following program
Select the statement that should be added to the program to get correct output.

```
import java.sql.*;
public class db15
{
public static void main(String args[])throws Exception
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c =DriverManager.getConnection("jdbc:odbc:MyDSN","","");
PreparedStatement s=c.prepareStatement( "update db3 set Name=? where Roll_no=?");
Statement s=c.createStatement( );
s.setString(1,args[0]);
s.setString(2,args[1]);
s.setString(3,args[2]);
ResultSet rs=s.executeQuery("select* from db3");
System.out.println("Name"+"\t"+"Roll no"+"\t"+"Avg");
while(rs.next())
{
System.out.println(rs.getString(1)+"\t"+rs.getInt(2)+"\t"+rs.getDouble(3));
}
    s.close();
    c.close();
}
}
```

A. s.executeUpdate()
B. c.createStatement( )
C. s.close()
D. c.close()

Chapter 5
1. Choose missing statements in following code from given options.

```
public class session1 extends HttpServlet
{
public void doGet(HttpServletRequest request,
HttpServletResponse response)
throwsServletException, IOException
{
HttpSession hs = request.getSession(true);
response.setContentType("text/html");
PrintWriter pw = response.getWriter();
pw.print("<B>");
Date date = (Date)hs.getAttribute("date");
if(date != null) {
pw.print("Last access: " + date + "<br>");
}
date = new Date();
hs.setAttribute("date", date);
```

```
pw.println("Current date: " + date);
}
}
```

A.   import java.io.*; import java.util.*; import javax.servlet.*; import javax.servlet.http.*;
B.   import java.Vector.* ; import java.Thread.*; import javax.servlet.*;
C.   import javax.servlet.http.*; import java.String.*; import java.Vector;
D.   import javax.servlet.http.*; import java.Thread.*; import javax.Client.*;

2.   In following Java program fill statement showing ***.Select any one option fro given options

```
import javax.servlet.*;
import javax.servlet.http.*;
public class AddCookieServlet extends HttpServlet
 {
public void doPost(HttpServletRequest request,
HttpServletResponse response)
throwsServletException, IOException
{
String data = request.getParameter("data");
Cookie cookie = ***************
response.addCookie(cookie);
response.setContentType("text/html");
PrintWriter pw = response.getWriter();
pw.println("<B>MyCookie has been set to");
pw.println(data);
pw.close();
}
}
```

A.   new Cookie("MyCookie", data);
B.   new Cookie("MyCookie", data1);
C.   new Cookie("MyCookie", data2);
D.   new Cookie("MyCookie", database);

3.   Consider the following program. Identify the exception that might be thrown

```
import java.net.*;
class URLDemo
{
public static void main(String args[]) throws _____
{
URL netAddress= new URL("http://www.sun.com:8080//index.html");
System.out.println("Protocol :"+netAddress.getProtocol());
System.out.println("Port :"+netAddress.getPort());
System.out.println("Host :"+netAddress.getHost());
```

System.out.println("File :"+netAddress.getFile());
}
}

A. IoException
B. MalformedURLException
C. Arithmetic Exception
D. UnknownHostException

4. **Consider the following program. Identify the missing statement from the output.**
   import java.net.*;
   class URLDemo
   {
   public static void main(String args[]) throws MalformedURLException
   {
   URL netAddress= new URL("http://www.sun.com: //index.html");
   System.out.println("Protocol :"+netAddress.getProtocol();
   System.out.println("Port :"+netAddress.getPort());
   System.out.println("Host :"+netAddress.getHost());
   System.out.println("File :"+netAddress.getFile());
   }
   }

 Output of the Program
Protocol :http
            Host :www.sun.com
             File :/index.html

A. Port :8080
B. Port :1024
C. Port: -1
D. None of the above

5. **Consider the following program and identify the missing statement.**

class URLDemo
{
public static void main(String args[]) throws MalformedURLException
{
URL netAddress= new URL("http://www.sun.com:/index.html");
System.out.println("Protocol :"+netAddress.getProtocol());
System.out.println("Port :"+netAddress.getPort());
System.out.println("Host :"+netAddress.getHost());
System.out.println("File :"+netAddress.getFile());
}
}

A. Missing semicolon
B. Missing package statement

C. Missing initialization
D. None of the above

6.2.3 Answer Key
Answer key for Unit test I

1. Answer : C: remove()

2. Answer: A: Controls or components allow users to interact with application

3. Answer: A: Windows, Panel, ScrollPane

4. Answer :A: CheckboxGroup

5. Answer: A : An event is an object that describes a state change in a source.

6. Answer: C: addMouseMotionListner()

7. Answer: A getID()

8. Answer: B: List, Button

9. Answer : C: Panel, TabbedPane, List

10. Answer: B: addMouseListener(this);

         addMouseMotionListener(this);
         import java.awt.event.*;

11. Answer:C:AdjustmentEvent
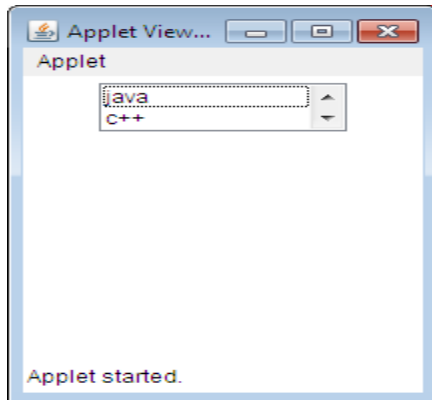

12. Answer: B
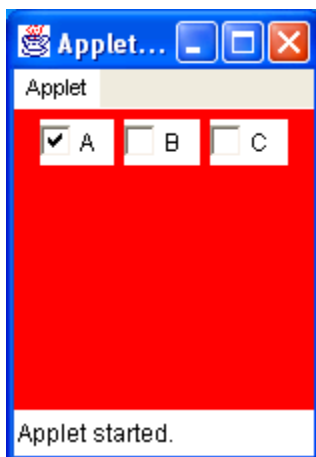
13. Answer: A:
    import java.awt.*;
    import java.applet.*;
    public class choice11 extends Applet
    {
    public void init()
    {
    Choice os=new Choice();
    os.add("wnn18");
    os.add("wnnxp");
    os.add("wnnnt");
    os.add("win 2000");
    add(os);
    }
    }

/*<applet code="choice11" height=200 width=300>
</applet>*/

14. Answer: C:

15. Answer: A: **Error in statement in which JTable is created**

16. Answer: D: The output is obtained in Applet with two layouts: Border layout and Flow Layout.

Answer key for Unit test II

1. Answer : B: getPort()
2. Answer: B: File path
3. Answer: C: Structured Query Language
4. Answer :D: Parametrized
5. Answer: A : Servlets are small program used for developing and executing web applications.
6. Answer: C: InetAddress
7. Answer: A static InetAddressgetLocalHost( )throws UnknownHostException
8. Answer: D: All of above
9. Answer : B: d-a-e-b-c
10. Answer: C: Browser will interpret content as HTML source code.
11. Answer: C: The internet address of the host
12. Answer: A

```
import java.sql.*;
class Ddemo1
{
public static void main(String args[]) throws Exception
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection c=DriverManager.getConnection("jdbc:odbc:ODSN"," "," ");
Statement s=c.createStatement();
ResultSet rs=s.executeQuery("select *from StudTable");
System .out.println("Name" + " \t " + "Roll_No" + " \t " + "Avg");
while(rs.next())
{
System.out.println(rs.getString(1)+" \t "+rs.getInt(2)+" \t \t"+rs.getDouble(3));
}
s.close();
c.close();
}
}
```

13. Answer: A: Command line argument
14. Answer: C: public static Connection getConnection(String url, String name, String password) throws SQLException
15. Answer: A: Output shown is correct
16. Answer:B:The program gives a syntax error because of the statement

```
<%! String myName=request.getParameter();%>
```

Answer Key for AJP 100 marks Paper
Remember Level
Chapter 1
1. **Answer: C:** CheckboxMenuItem
2. **Answer: A:** Labels, Push buttons, Check boxes, Choice lists.
3. **Answer: A:** FlowLayout
4. **Answer: A:** AWT Components create a process where as Swing Component create a thread
5. **Answer: D: setBorderLayout()**
6. **Answer: B: Cotent**
7. **Answer: D: JTree(int x)**
8. **Answer: B: Platform Independent**

Chapter 2

1. **Answer: B: getWindow()**
2. **Answer: B: getXCoordinate()**
3. **Answer: D: All of the mentioned**
4. **Answer: B: ComponentEvent**

Chapter 3

1. **Answer: C: InetAddress**
2. **Answer: B: File path.**
3. **Answer: D: Protocol.**
4. **Answer: A: getData()**

Chapter 4

1. **Answer: A: JDBC calls, network protocol**
2. **Answer: A: JDBC call, ODBC call**
3. **Answer: C: executeUpdate()**
4. **Answer: D: Parameterized**

Chapter 5
1. **Answer: A: HttpServletRequest**
2. **Answer: A: GET method**
3. **Answer: A: TCIP/IP**
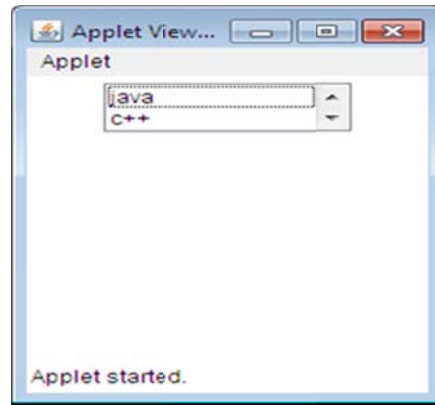4. **Answer: B: Servlet**

Understand Level

Chapter 1

1. **Answer: A: Label, TextField, Button**
2. **Answer: C: JTable object displays rows and columns of data.**
3. **Answer: B: setIcon(ImageIcon i)**
4. **Answer: C: Panel, TabbedPane, List**

Chapter 2
1. **Answer: D: All of the above.**

2. **Answer: C:**

3. **Answer: D:**

```
JPaneljp = new JPanel();
    jp.setLayout(new GridLayout(3,3));
    int b = 0;
    for(int i = 0; i <3; i++)
  {
    for(int j = 0; j <3; j++)
  {
    jp.add(new JButton("Button " + b));
    ++b;
```

Chapter 3
1. **Answer: A: static InetAddressgetLocalHost( )throws UnknownHostException.**
2. **Answer: D: All of above**
3. **Answer: A: ServerSocket(int port, int maxQueue)**
4. **Answer: C: The internet address of the host**

Chapter 4

1. **Answer: B: ResultSet object**
2. **Answer: B: Statement**
3. **Answer: C: Integer**

Chapter 5

1. **Answer: A: void service(ServletRequestreq, ServletResponse res)**
2. **Answer: B: JSP is web page scripting language and servlets are Java programs**
3. **Answer: A: All above are valid differences**

Apply Level

Chapter 1

1. **Answer : B**

```
importjava.awt.*;
importjava.applet.*;
public class app1 extends Applet
{
public void init()
{
TextFieldtf = new TextField();
TextArea t1=new TextArea(3,20);
Checkbox c=new Checkbox("a",true);
Checkbox c1=new Checkbox("b",false);
add(tf);
add(t1);
add(c);
add(c1);
}
}
/*<applet code=app1.class width=200 height=200>
</applet>*/
```

2. Answer : A: Error in statement in which JTable is created
3. Answer: C: appletviewer combodemo11.java
4. Answer: D: The output is obtained in Applet with two layouts: Border layout and Flow Layout.

Chapter 2

1. **Answer: A**

```
importjava.awt.*;
importjava.applet.*;
public class choice11 extends Applet
{
public void init()
{
Choice  os=new Choice();
os.add("wnn18");
os.add("wnnxp");
os.add("wnnnt");
os.add("win 2000");
add(os);
}
}
/*<applet code="choice11" height=200 width=300>
</applet>*/
```

2. Answer: A: jl = new JLabel(new ImageIcon("star.gif"));
3. Answer: D: mbr.add(viewmenu);
4. Answer C: {
5. Answer: C: itemStateChanged(ItemEvent ie)

Chapter 3
1. Answer: C: The internet address of the host
2. Answer: D: Use of created object not correct

Chapter 4
1. Answer: C: Missing }
2. Answer: D: Missing statement.
3. Answer: A: Error in main()
4. Answer: D: Missing package statement.
5. Answer: A: s.executeUpdate()

Chapter 5

1. Answer: A: import java.io.*; import java.util.*; import javax.servlet.*; import javax.servlet.http.*;
2. Answer: A: new Cookie("MyCookie", data);
3. Answer: B: MalformedURLException
4. Answer: C: Port: -1
5. Answer: B: Missing package statement