

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40 each 1 mark
Short 4 each 2 marks
Short 4 each 3 marks
long 4 each 5 marks

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

What method must appear in the following declaration?

```
public class abc extends JFrame implements ActionListener
```

Answer (Please select your correct option)

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☒ actionPerformed();

☐ getActionCommand();

☐ addActionListener();

☐ windowClosed();

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

The HTTP response values in the range _____ specify that the request was successful.

Answer (Please select your correct option)

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☐ 100-199

☒ 200-299

☐ 300-399

☐ 400-499

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

There is/are _____ form(s) of response redirection.

Answer (Please select your correct option)

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1

☐

2

☒

3

☐

4

☐

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

With the help of _____ we can better organize our files into different directories.

Answer (Please select your correct option)

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Classes

☐

Interfaces

☐

Session

☐

Packages

☒

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

A bean class _____ have a zero argument constructor.

Answer (Please select your correct option)

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Can

☐

Can't

☐

Must

☒

Shouldn't

☐

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Which information a Tag Library Descriptor (.tld) file specifies?

Answer (Please select your correct option)

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☐ Tag library version / JSP version

☐ Tag name / Tag Handler class name

☐ Attribute names

☒ All of these

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

MVC stands for _____

Answer (Please select your correct option)

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☐ Model View Content

☒ Model View Controller

☐ Multi View Controller

☐ Multi View Content

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

High coupling makes classes difficult or impossible to reuse because _____

Answer (Please select your correct option)

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☐ They are independent of other classes

☒ They depend on so many other classes

☐ They have limited functionality

☐ They are not properly implemented

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Layers represent the _____ view of application.

Answer (Please select your correct option)

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☐ Physical

☒ Logical

☐ External

☐ None of these

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

If we do not handle exception while using I/O files then it will lead to _____

Answer (Please select your correct option)

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☐ Logical error

☒ Compile time error

☐ Run-time error

☐ No error

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following problem most often occurs while scheduling threads using priority scheduling?

Answer (Please select your correct option)

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☒ Starvation

☐ Process death

☐ Average waiting time

☐ None of the given options

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following component is/are used in directory Structure of web components?

Answer (Please select your correct option)

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☐ html, JSP, Images etc..

☒ web.xml, Classes folder

☐ lib, jar files

☐ All of the given options

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

The dot operator in Expression Language is typically used for accessing the ----- of an object.

Answer (Please select your correct option)

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☒ Properties

☐ Elements

☐ Values

☐ Attributes

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following object is passed as an argument to the paint () method?

Answer (Please select your correct option)

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☐ A Canvas object

☒ A Graphics object

☐ An Image object

☐ A paint object

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Servlets handle requests sent by the user (clients) and generates _____ response.

Answer (Please select your correct option)

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- ☐ Static
- ☒ Dynamic
- ☐ Both static and dynamic
- ☐ None of the given options

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT a standard method called as a part of the JSP life cycle?

Answer (Please select your correct option)

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- ☐ jspInit()
- ☒ jspService()
- ☐ _jspService()
- ☐ jspDestroy()

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

JavaBean is a/an _____.

Answer (Please select your correct option)

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- ☒ Special Java class
- ☐ Special form of JSP
- ☐ xml file
- ☐ Servlet

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following tag is used for defining initialization parameters of a servlet?

Answer (Please select your correct option)

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☐ <initialize-parameters> </initialize-parameters>

☐ <init-parameters> </init-parameters>

☒ <init-param> </init-param>

☐ <initialize-param> </initialize-param>

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Servlet mapping of a servlet is defined in _____ file.

Answer (Please select your correct option)

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☐ JSP

☐ HTML

☒ web.xml

☐ Servlet

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the following is NOT true for "Anonymous Inner Class"?

Answer (Please select your correct option)

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☐ Capabilities of inner class

☒ Has name

☐ Much shorter

☐ Difficult to understand

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT true for applets?

Answer (Please select your correct option)

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- ☐ They are independent of the operating system.
- ☐ They are embedded in a Web page.
- ☐ They can be run from a browser.
- ☒ They have access to the client's file system.

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

By _____, the original request can be forwarded to the next servlet.

Answer (Please select your correct option)

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- ☐ both request dispatching and response redirection
- ☐ None of the given options
- ☒ request dispatching
- ☐ response redirection

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

The _____ object contains the information relevant to a servlet.

Answer (Please select your correct option)

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- ☒ ServletConfig
- ☐ ServletInfo
- ☐ ConfigInfo
- ☐ ServletConfigInfo

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT appropriate for Page-centric approach?

Answer (Please select your correct option)

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- ☐ The maintenance of the application becomes a nightmare.
- ☐ A lot of code is also get duplicated.
- ☒ Scaling of such kind of application is easy 100%
- ☐ The code becomes a mixture of presentation, business and data access logic.

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

In _____, Java is written inside HTML.

Answer (Please select your correct option)

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- ☒ JSP
- ☐ Servlets
- ☐ Both Servlets and JSP
- ☐ None of the given options

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Controller centralizes the logic for dispatching requests to the next view based on _____.

Answer (Please select your correct option)

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- ☐ The Request URL
- ☐ Input Parameters
- ☐ Application State
- ☒ All of the given options

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

WSDL stands for

Answer (Please select your correct option)

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☒ Web Service Description Language

☐ Web Service Database Language

☐ Web Service Data Language

☐ None of the given options

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

UDDI stands for

Answer (Please select your correct option)

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☒ Universal Description, Discovery & Integration (UDDI)

☐ Universal Data, Discovery & Integration (UDDI)

☐ Universal Data, Database & Integration (UDDI)

☐ None of the given options

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

JSF is _____ based framework

Answer (Please select your correct option)

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☐ Both event and request/response

☐ Request/Response

☒ Event

☐ None of the given options

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Managed Bean is JavaBeans which is defined in _____.

Answer (Please select your correct option)

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- ☐ Class file
- ☒ Configuration file
- ☐ Source file
- ☐ None of the given options

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Identify which one is web brochure.

Answer (Please select your correct option)

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- ☐ Amazon
- ☐ Face book
- ☒ Oxford university site.
- ☐ E.bay (Online shopping site).

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Which package contains ArrayList?

Answer (Please select your correct option)

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- ☒ java.util
- ☐ javax.swing
- ☐ java.awt
- ☐ java.lang

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

From which database this driver belongs?
JdbcOdbcDriver

Answer (Please select your correct option)

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- ☐ Oracle database
- ☐ Mysql database
- ☐ SQL database
- ☒ Ms Access database.

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Timer is initialized by which of the following method?

Answer (Please select your correct option)

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- ☒ start()
- ☐ initialize()
- ☐ schedule()
- ☐ clone()

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

What is not true about communication socket?

Answer (Please select your correct option)

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- ☒ It listens client's data requests.
- ☐ It communicates with client.
- ☐ It is ordinary socket.
- ☐ It runs on client machine.

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Yield is used in which of the following scheduling?

Answer (Please select your correct option)

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☐ Preemptive

☒ Cooperative

☐ Round Robin

☐ Shortest job first

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the server side error:

Answer (Please select your correct option)

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☐ 401

☐ 402

☐ 403

☒ 503

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocol based server do we need to have while forwarding emails?

Answer (Please select your correct option)

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☒ SMTP

☐ TOMCAT

☐ TELNET

☐ FTP

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

When the JSP file compiles In which of the following format does it changes?

Answer (Please select your correct option)

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☐ Java file

☐ Html file

☒ Servlet file

☐ CSS file

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

When a user wants to access our application through browser which of the following folder of Tomcat does he access?

Answer (Please select your correct option)

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☐ common

☒ webapp

☐ shared

☐ work

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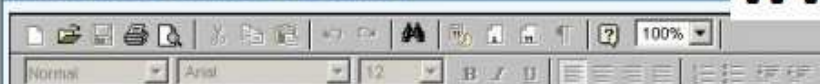
Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What is the difference between client socket and server socket?

Answer (Please click here to Add Answer)

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As soon as client creates a socket that socket attempts to connect to the specified server.

- The server listens through a special kind of socket, which is named as server socket.
- The sole purpose of the server socket is to listen for incoming request; it is not used for communication

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

What is tag library?

Answer (Please [click here](#) to Add Answer)

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The JSP Standard Tag Library (JSTL) is a collection of custom tag libraries

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

EL (expression language) uses four different scopes to search an object or property. Write the name of each scope.

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Scopes	pageScope	A <i>Map</i> associating names & attributes
	requestScope	A <i>Map</i> associating names & values of <i>request</i> scoped attributes
	sessionScope	A <i>Map</i> associating names & values of <i>session</i> scoped attributes
	applicationScope	A <i>Map</i> associating names & values of <i>application</i> scoped attributes

here we just write the names.. just

- i) Page Scope
- ii) requestScope
- iii) SessionScope
- iv) applicaionScope

Made by: Waqar Siddhu

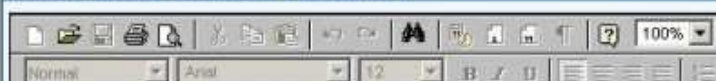
Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write a code statement to remove the value associated with the "amazonSession" of object "session".

Answer (Please [click here](#) to Add Answer)

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**removeAttribute(String)**

- This method removes values associated with the name

```
Session.removeAttribute("amazonSession");
```

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Define polymorphism with respect to DryFruits, Fruits and FreshFruits?

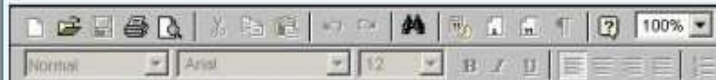
Genrl Idea of polymorephism



"Polymorphic" literally means "of multiple shapes" and in the context of OOP, Polymorphic means "having multiple behaviors".
* A parent class reference can point to the subclass objects because of is-a relationship.
* A polymorphic method results in different actions depending on the object being referenced
o Also known as late binding or run-time binding

Answer (Please [click here](#) to Add Answer)

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Fruits is an Abstract class , and DeyFruits, and FreshFruits Both are Child classes and have to make them cancreate classes

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Why HTTP is made stateless protocol? Explain with example.

Answer (Please [click here](#) to Add Answer)

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HTTP is a stateless protocol. Every request is considered independent of every other request. But many applications need to maintain a conversational state with the client. A shopping cart is a classical example of such conversational state.

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

What impact a JavaBeans object can produce when it is stored in an Application?

Answer (Please [click here](#) to Add Answer)

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These conventions are:

- A bean class must have a zero argument constructor
- A bean class should not have any public instance variables/attributes (fields)
- Private values should be accessed through setters/getters
- A bean class must be **Serializable**

for point four. NOte serialization..
pasing the objects.....

serialize an object means to convert its state to a byte stream so that the byte stream can be reverted back into a copy of the object. A Java object is serializable if its class or any of its superclasses implements either the java.io.Serializable interface or its subinterface

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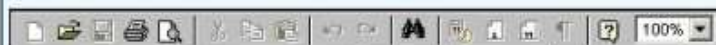
Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Why do we use client side validation?

Answer (Please [click here](#) to Add Answer)

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There are two good reasons to use client-side validation:

- It's a fast form of validation: if something's wrong, the alarm is triggered upon submission of the form.
- You can safely display only one error at a time and focus on the wrong field, to help ensure that the user correctly fills in all the details you need

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Question No : 49 of 52

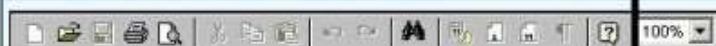
Marks: 5 (Budgeted Time 10 Min)

Differentiate between JSP's and servlets with example codes.

JSP that is displaying a current date. This page more looks like a HTML page except of two strangely written lines of codes. Also there are no signs of doGet(), doPost().

Answer (Please [click here](#) to Add Answer)

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JSP code:-

```
<%@ page import="java.util.*" %>
<html>
<body>
<h3>
Current Date is:<%= new Date()%>
</h3>
</body>
</html>
```

servlets

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

must call , do get, or do post

```
public class abc extends HttpServlet{
public void doPost(HttpServletRequest request,
HttpServletResponse response){
```

```
PrintWriter out= response.getWriter()
try{
OUT.PRINT("<html>")
OUT.PRINT("<body>")
```

```
OUT.PRINT("<h1>hello</h1>")
```

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Use the following Bean placed in "IslamRules" package using JSP action element. Value of amount is taken from the form field "amount".

```
public class ZakatBean implements Serializable {
private int amount;
private int zakat;
```

Answer (Please [click here](#) to Add Answer)

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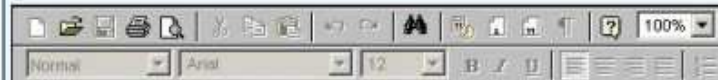
Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

What are benefits of partitioning the application in logical layers?

Answer ([Please click here to Add Answer](#))

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Each layer performs a specific functionality which should not be mixed with other layers. Layers are isolated from each other to reduce coupling between them but they provide interfaces to communicate with each other.

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Following are the contents of file1.txt

My name is ali.
My roll no is bc020400001.
I am studying java.
Java is very easy.

Answer ([Please click here to Add Answer](#))

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