



Virtual University

About Us

CS506
Solved Final Term Paper 2

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Year
2017

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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 : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What is other technique to remove server side overhead while maintaining the state of user?

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

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Normal Arial 12 B I U

In order to maintain the conversational state, server puts little notes (some text, values etc) on the client side. When client submits the next form, it also unknowingly submits these little notes. Server reads these notes and able to recall who the client is.

for more detail page 287

Made by: Waqar Siddhu

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Being a java web developer, you know each tag handler class must inherit from another class. What is name of that class?

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

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Normal Arial 12 B I U

Usually extend from SimpleTagSupport class that has already implemented SimpleTag interface.
• For example,
public class MyTagHandler extends SimpleTagSupport {
.....
.....
}

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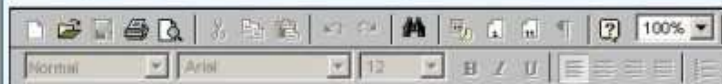
Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

What is use of [] operator in EL? Give one example.

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

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The dot (.) and bracket ([]) operator let you access identifies and their properties. The dot operator typically used for accessing the *properties of an object* and the bracket operator is generally used to retrieve *elements of arrays and collections*.

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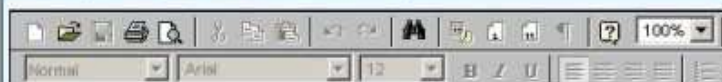
Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Is it necessary that each try block must be followed by a catch block? Give reasons to support your answer.

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

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yes! bcz when a exception uccres in try bock then we need a cathc block where it would be caught and avoid to our progame to terminate unexpectedly

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Question No : 45 of 52

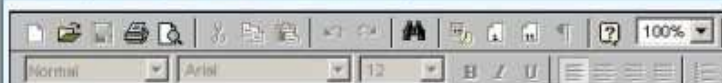
Marks: 3 (Budgeted Time 6 Min)

In HashMap we can use put method to add objects into HashMap. Is the code given below correct or not? If there is problem then identify the problem.

```
h.put(1 , s1);    its wrong
h.put(2 , s2);
h.put(3, s3);
```

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

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first parameter should be a string

```
h.put("one". s1);
h.put("two". S2);
h.put("three". S3);
```

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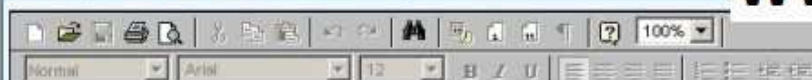
Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a single line to include a page "vuHome.java" using custom tags. You can use any name for tags but mention which name you have chosen for which tag element:

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

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```
<%@ page include="vuHome.java" name="chak_dum_dum" %>
```

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Question No : 47 of 52

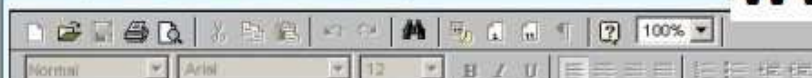
Marks: 3 (Budgeted Time 6 Min)

Write an Expression language equivalent to

1. Out implicit object of JSP
2. request.getParameter("id");

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

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```
$ {out}  
equal to PrintWriter out= this.getContext();  
  
• $ { param.name }  
o This expression is equivalent to calling  
request.getParameter ("name") ;
```

Made by: Waqar Siddhu

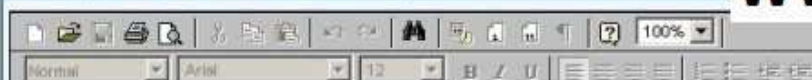
Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

What is the purpose of hash maps in session tracking through cookies?

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

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Servlet has one global HashMap (globalMap) in which HashMap of individual user (sessionInfo) are going to be stored. This (sessionInfo) HashMap stores the books selected by the user.

What's the part of cookies? Cookie (named JSESSIONID, with unique value) is used to keep the unique sessionID associated with each user. This sessionID is passed back and forth between user and the server and is used to retrieve the HashMap (sessionInfo) of the user from the global HashMap at the server. It should be noted here that, HashMaps of individual users are stored in a global HashMap against a sessionID.

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose p is an object of parent class, c is an object of is a child class.If the students name is "Zia" consider the following code and show the output

```
p.display()  
System.out.println("Father Name: Ali");  
c.display(String name)
```

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

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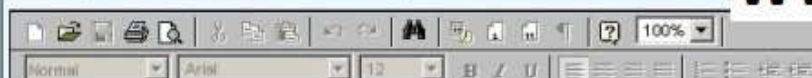
Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Being a java developer you have given a task to define two initialization parameters. Define first parameter for text file (out.txt) and other for DSN (studentDSN). You are required to write only necessary code.

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

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```
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">  
  <servlet>  
    <servlet-name>s</servlet-name>  
    <servlet-class>servlet</servlet-class>  
    <init-param>  
      <param-name>DNS</param-name>  
      <param-value>sun.JDBC</param-value>  
    </init-param>  
    <init-param>  
      <param-name>Txtfile</param-name>  
      <param-value>txt</param-value>
```

Made by: Waqar Siddhu

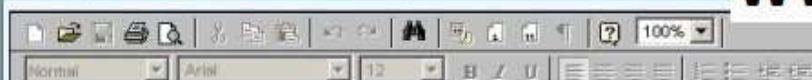
Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Write literals that can be used as an EL (expression language). Also write there possible values.

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

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Literals	Literal Values
Boolean	true or false
Integer	Similar to Java e.g. 243, -9642
Floating Point	Similar to Java e.g. 54.67, 1.83
String	Any string delimited by single or double quote e.g. "hello", 'hello'
Null	Null

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Question No : 52 of 52

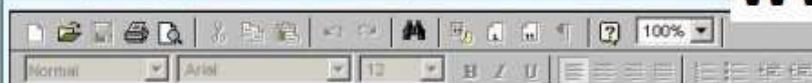
Marks: 5 (Budgeted Time 10 Min)

You are required to write a Servlet code that will read the parameters passed from the login page. In a login page, user will enter username in text field uname and password in text field pass. If the user name is "vulns" and password is "admin" then send the user to "Welcome.jsp" else send the user to "Error.jsp"

Note: You are not required to write complete code. Just write code which will read form data and send response to Welcome or Error page.

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

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Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

ArrayList is also called _____ array.

Answer (Please select your correct option)

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☐ Repeatable

☐ Renewable

☒ Resizable

☐ Reliable

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

What does the following code draw?

```
g.setColor(Color.black);  
g.drawLine(10, 10, 10, 50);  
g.setColor(Color.RED);
```

Answer (Please select your correct option)

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☐ A red vertical line that is 40 pixels long and a red square with sides of 150 pixels

☐ A black vertical line that is 40 pixels long and a red square with sides of 150 pixels

☐ A black vertical line that is 50 pixels long and a red square with sides of 150 pixels

☐ A red vertical line that is 50 pixels long and a red square with sides of 150 pixels

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

JSP _____ action element is used to obtain a reference to an existing JavaBean object.

Answer (Please select your correct option)

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☒ useBean

☐ setProperty

☐ getProperty

☐ None of these

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Question No : 4 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 : 5 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

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Question No : 6 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 : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

The bracket operator in Expression Language is generally used to retrieve -----of arrays and collections.

Answer (Please select your correct option)

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☐ Properties

☒ Elements

☐ Values

☐ Attributes

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

Web services are Web-based enterprise applications that use open, ----- standards and transport protocols to exchange data with calling clients.

Answer (Please select your correct option)

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☒ XML-based

☐ HTML-based

☐ JSP-based

☐ DHTML-based

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following applet method is called once in applet life cycle?

Answer (Please select your correct option)

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☒ init()

☐ start()

☐ paint()

☐ stop()

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is used for comments in JSP?

Answer (Please select your correct option)

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☐ <%..comments..%>

☒ <%--comments--%>

☐ <%comments%>

☐ <%|comments%>

Made by: Waqar Siddhu

Question No : 11 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()

Made by: Waqar Siddhu

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

With URL rewriting, the information appended to URL can be in the form of _____

Answer (Please select your correct option)

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☐ Extra path information

☐ Added parameters

☐ Custom change

☒ All of the given options

Made by: Waqar Siddhu

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following statement is FLASE about servlets?

Answer (Please select your correct option)

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☐ Servlets handle request sent by client and generates dynamic response.

☐ With servlets, each request is handled by lightweight java thread.

☒ With servlets, each request is handled by heavy weight operating system process.

☐ Servlets are portable across different platforms.

Made by: Waqar Siddhu

Question No : 14 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

Made by: Waqar Siddhu

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

On every request from the client, the server creates a new _____ and calls the _____ method.

Answer (Please select your correct option)

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☒ thread, service()

☐ thread, init()

☐ process, service()

☐ process, init()

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about static methods of a class?

Answer (Please select your correct option)

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☐ Static methods can only be accessed via class name.

☐ Static methods can only be accessed via an instance of class.

☒ Static methods can be accessed via class name as well as an instance of class.

☐ Static methods cannot be invoked before the object is created.

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following access modifier is provided by default if no access modifier is written explicitly with data members or methods?

Answer (Please select your correct option)

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☐ private

☐ protected

☐ default

☒ public

Made by: Waqar Siddhu

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true regarding an abstract class?

Answer (Please select your correct option)

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- ☐ An abstract class must have at least one abstract method.
- ☒ An abstract class must have all methods declared as abstract methods.
- ☐ A class without any abstract method can be declared as an abstract class.
- ☐ An instance of abstract class can be created.

Made by: Waqar Siddhu

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The **sleep(int time)** method causes the currently executing thread to wait for the time specified in -----

Answer (Please select your correct option)

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- ☒ Milliseconds
- ☐ Nanoseconds
- ☐ Seconds
- ☐ Minutes

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Web server is a software which provides services to access _____.

Answer (Please select your correct option)

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- ☐ Internet
- ☐ Intranet
- ☐ Extranet
- ☒ All of the given options

Made by: Waqar Siddhu

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Extra information can be appended to URL using _____.

Answer (Please select your correct option)

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☐ Extra path information

☐ Added parameters

☐ Custom change

☒ All of the given options

Made by: Waqar Siddhu

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

Made by: Waqar Siddhu

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

Made by: Waqar Siddhu

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.
- ☐ The code becomes a mixture of presentation, business and data access logic.

Made by: Waqar Siddhu

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

What will be the result of following statement?
System.out.println(6+3);

Answer (Please select your correct option)

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- ☐ 63
- ☐ 6+3
- ☒ 9
- ☐ Syntax error

Made by: Waqar Siddhu

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Each event source can have _____ listener/listeners registered on it.

Answer (Please select your correct option)

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- ☐ Single
- ☒ Multiple
- ☐ Double
- ☐ Triple

Made by: Waqar Siddhu

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

In packages, we organize files into different directories according to their _____.

Answer (Please select your correct option)

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☐ Functionality

☐ Usability

☐ Category

☒ All of the given options

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Question No : 28 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 : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

RPC stands for

Answer (Please select your correct option)

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☐ Remote Personal Computer (RPC)

☐ Remote Procedure Client (RPC)

☒ Remote Procedure Calls (RPC).

☐ None of the given options

Made by: Waqar Siddhu

Question No : 30 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 : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Managed Beans have _____ Model

Answer (Please select your correct option)

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☒ Declarative

☐ Sequential

☐ Iterative

☐ None of the given options

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Which is the fastest driver from the following?

Answer (Please select your correct option)

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☐ Type 1

☐ Type 2

☐ Type 3

☒ Type 4

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

What is not true about server socket:

Answer (Please select your correct option)

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☐ It listens client's requests.

☐ It communicates with client.

☒ It is special socket.

☐ It runs on server machine.

Made by: Waqar Siddhu

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

If you are going to implement multithreading in java which of the following interface is required:

Answer (Please select your correct option)

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☐ Threads

☒ Runnable

☐ POSIX_THREADS

☐ Threading

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

JSDK is developed for which of the following applications :

Answer (Please select your correct option)

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☒ Enterprise applications

☐ Processor based applications

☐ Mobile devices

☐ Network based applications

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following method is called each time a request is made?

init()

Select option)

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service()

destroy()

doGet()

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

How many servlets are there per web application?

t

Answer (Please select your correct option)

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1

2

As many as you can.

It depends upon servlet Context

Made by: Waqar Siddhu

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following provides method level access to the variables declared in it in JSP?

<%= %>

<% %>

<%@ %>

<%! %>

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34.2 JSP Ingredients

Besides HTML, a JSP may contain the following elements:

- Directive Element
 - Provides global control of JSP
- Scripting Element
 - JSP comments

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Web Design and Development (CS506)

- Action Element
 - Special JSP tags

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a Java Bean class?

Answer (Please select your correct option)

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☐

Which have a zero argument constructor.

☒

Which have any public instance variables/attributes (fields).

☐

Whose Private values are accessed through setters/getters.

☐

Which is serializable.

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Session is a _____.

Answer (Please select your correct option)

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☐

Array.

☐

Link List.

☒

Hash Map.

☐

Stack.

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