

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

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

200-299

- ☐ Values in the 200s signify that the request was successful.
- ☐ 200: Means everything is fine.

Answer (Please select your correct option)

100-199

☐

200-299

☒

300-399

☐

400-499



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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

A bean class _____ be serializable.

Answer (Please select your correct option)

☐ Can

☐ Can't

☒ Must

☐ Shouldn't

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

A bean class _____ have any public instance variables/attributes (fields).

Answer (Please select your correct option)

☐ Can

☐ Can't

☐ Must

☐ Shouldn't

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Using the following value of JavaBean's scope attribute, the bean object is stored in ServletContext.

Answer (Please select your correct option)

☒ Page

☐ Request

☐ Session

☐ Application

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Question No : 5 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)

☒ XML-based

☐ HTML-based

☐ JSP-based

☐ DHTML-based

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is a standard web based application framework.

Answer (Please select your correct option)

☐ Java

☐ Servlet

☐ JSP

☒ JSF

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about concrete class?

Answer (Please select your correct option)

- ☐ A concrete class must be declared with concrete keyword
- ☐ It must provide implementation of all abstract methods of super class
- ☐ An instance of concrete class cannot be created
- ☐ It may or may not provide implementation of abstract methods of super class

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

If a sub class overrides all abstract methods of super class then it becomes _____

Answer (Please select your correct option)

☐ abstract class

☒ concrete class

☐ wrapper class

☐ adapter class

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following approach(es) is used to create threads in java?

Answer (Please select your correct option)

☐ Interface

☐ Inheritance

☒ Both Interface and Inheritance

☐ None of the given options

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is a correct order for Bean scope in JSP page from most visible to least visible?

Answer / Please select your correct option)

☒ application, session, request, page

☐ page, request, session, application

☐ session, page, request, application

☐ application, session, page, request

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the best choice as a controller in MVC Model Architecture?

Answer (Please select your correct option)

Java

☐

JavaScript

☐

Servlet

☒

JSP

☐

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a built-in validator?

Answer (Please select your correct option)

☐ DoubleRangeValidator

☐ LongRangeValidator

☐ LengthValidator

☒ StringValidator

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is used for comments in JSP?

Answer (Please select your correct option)

☐ <%..comments..%>

☒ <%--comments--%>

☐ <%comments%>

☐ <%!comments%>

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Java program code is compiled into a form called -----.

Answer (Please select your correct option)

☐ Machine Code

☐ Native Code

☒ Byte Codes

☐ Source Code

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

DataBaseMetaData object can be derived from _____ object.

Answer (Please select your correct option)

☐ ResultSet

☐ Connection

☐ Statement

☒ ResultSetMetaData

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is FALSE regarding HttpServlet class?

Answer (Please select your correct option)

☒ It is used for writing protocol dependent servlet.

☐ It is used for writing protocol independent servlet.

☐ It is available in javax.servlet.http package.

☐ It extends from GenericServlet class.

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Servlet mapping of a servlet is defined in _____ file.

Answer (Please select your correct option)

☐ JSP

☐ HTML

☒ web.xml

☐ Servlet

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

By using sendRedirect() method of _____ object, a new request is generated which redirects the user to called resource.

Answer (Please select your correct option)

☐ ServletConfig

☐ ServletContext

☒ HttpServletRequest

☐ HttpServletResponse

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is a correct way to create an ArrayList to hold Strings with an initial capacity of 10 items?

Answer (Please select your correct option)

- ☐ ArrayList al<String> = new ArrayList<10>;
- ☒ ArrayList <String> al = new ArrayList[10];
- ☐ ArrayList al<String> = new ArrayList<String>(10);
- ☐ ArrayList<String> al = new ArrayList<String>(10);

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is a correct syntax for implementing WindowListener and MouseListener interfaces in a class named GUI?

Answer (Please select your correct option)

☐ public class GUI implements WindowListener implements MouseListener

☒ public class GUI implements WindowListener, MouseListener

☐ public class GUI implement WindowListener, MouseListener

☐ public class GUI implements WindowListener MouseListener

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Question No : 21 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)

☒ Milliseconds

☐ Nanoseconds

☐ Seconds

☐ Minutes

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Extra information can be appended to URL using _____.

Answer (Please select your correct option)

☐ Extra path information

☐ Added parameters

☐ Custom change

☒ All of the given options

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Question No : 23 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)

☐ 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.

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is appropriate for Page-with-Bean approach?

Answer (Please select your correct option)

- ☐ The code becomes a mixture of presentation, business and data access logic.
- ☐ The maintenance of the application becomes a nightmare.
- ☐ A lot of code is also get duplicated.
- ☒ All the business logic goes into one application.

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

A _____ defines the way and method of communication between two parties.

Answer (Please select your correct option)

- ☐ Compiler
- ☒ Protocol
- ☐ Tool
- ☐ Technique

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Socket is a -----communication channel between hosts.

Answer (Please select your correct option)

- ☐ Uni-directional
- ☒ Bi-directional
- ☐ Multi-directional
- ☐ None of the given options

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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)

☐ Functionality

☐ Usability

☐ Category

☒ All of the given options

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Tiers represent the _____ view of application.

Answer (Please select your correct option)

☒ Physical

☐ Logical

☐ External

☐ None of the given options

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Managed Bean is JavaBeans which is defined in _____.

Answer (Please select your correct option)

☐ Class file

☒ Configuration file

☐ Source file

☐ None of the given options

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

HTTP lies on which of the following layer?

Answer (Please select your correct option)

☐ Presentation Layer

☐ Data Layer

☐ Network Layer

☒ Application Layer

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

If we want to handle mouse Movement or mouse drag. Which of the following interface do we need to implement?

Answer (Please select your correct option)

☒ MouseMotionListener

☐ MouseListener

☐ MouseDragged

☐ MouseMoved

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

JSDK is developed for which of the following applications :

Answer (Please select your correct option)

☒ Enterprise applications

☐ Processor based applications

☐ Mobile devices

☐ Network based applications

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the server side error:

Answer (Please select your correct option)

☐ 401

☐ 402

☐ 403

☒ 503

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Tomcat gives its initialization parameters in which of the following :

Answer (Please select your correct option)

☐ classes

☒ web.xml

☐ source

☐ build

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following object has built in hash map?

Answer (Please select your correct option)

☒ session

☐ cookies

☐ hidden fields

☐ Url encoding

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Request and response objects are built in which of the following:

Answer (Please select your correct option)

☐ Java files

☐ Html files

☐ Servlet files

☒ JSP files

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

An Html file can also be saved with which one of the following extension?

Answer (Please select your correct option)

☐ .class

☐ .java

☒ .jsp

☐ .css

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following provides global control of JSP?

Answer (Please select your correct option)

☐ <%! %>

☒ <%@ %>

☐ <% %>

☐ <%= %>

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following are not the attributes of page directive?

Answer (Please select your correct option)

☐ import = "package.*,package.class,..."

☐ errorPage = "relativeURL".

☒ file="relativeURL".

☐ extends = "package.class".

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In the `init(ServletConfig)` method of Servlet life cycle, what method can be used to access the `ServletConfig` object?

Answer (Please select your correct option)

☐ `getServletInfo();`

☐ `getInitParameters();`

☒ `getServletConfig();`

☐ None of the given options

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What do setText () method and getText() do?

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



setText() is used set any value in textfield and it set as a string

getText is vice versa of setText()

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

How JSP's are efficient?

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



efficient as we can embad an HTML code and java code at one place so we dont have to splite all files and also make ease for dovelpoers

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

If we do not want to include a controller in our application, Which layer of three layer architecture will control screen flow?

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



page centric approche will be used as
presentation layer
buisness layer
data layer

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

If you want to send an error redirect to a web page. What method you will use for it. Write complete code syntax of required method.

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

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Normal Arial 12 B I U

An error code is sent as a parameter of `response.sendError (int, msg)` methods

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

What will be the output of code given below? If there is any problem in code then correct the problem.

```
import javax.swing.*;  
public class Test {  
  
    public static void main(String[] args) {
```

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

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

What is the advantage of having HTTP session?

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



Provides a way to identify a user across more than one page request or visit to a Web site and to store information about that user.

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a statement to use tag library "StudentInfo.tld" with prefix "student".

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



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page 379 creat the Custm tag

`<%@taglib uri="/WEB-INF/tlds/StudentInfo.tld" prefix="r" %>`
student

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Question No : 48 of 52

What is the difference between web server and application server?

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



A web server is software which provides users, access to the services that are present on the internet. These servers can provide support for many protocols used over internet or intranet like HTTP, FTP, telnet etc

A Web Server is a server capable of receiving HTTP requests, interpreting them, processing the corresponding HTTP Responses and sending them to the appropriate clients (Web Browsers). Example: Apache Web Server. Read more about Web Servers and their working>>

An Application Server is a complete server which provides an environment for running the business components (EJBs, ADF BCs, etc.) in addition to providing the capabilities of a Web Container as well as of a Web Server. Example: Bea WebLogic, IBM WebSphere, Oracle Application Server, etc.



Web Server?

Software that provides services to access the Internet, or an intranet.

A web server hosts web sites provides support for HTTP and other protocols Executes server-side programs (such as CGI scripts or servlets) that perform certain functions.

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

How java provides security and safety for applications? Also briefly explain JVM verifier.

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

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- The JVM "verifier" checks the code when it is loaded to verify that it has the correct Structure -- that it does not use an uninitialized pointer, or mix int and pointer types. This is one-time "static" analysis -- checking that the code has the correct structure without running it.
- The JVM also does "dynamic" checking at runtime for certain operations, such as pointer and array access, to make sure they are touching only the memory they should. You will write code that runs into
- As a result, many common bugs and security problems (e.g. "buffer overflow") are not possible in java. The checks also make it easier to find many common bugs easy, since they are caught by the runtime checker.

- You will generally never write code that fails the verifier, since your compiler is smart enough to only generate correct code. You will write code that runs into the runtime checks all the time as you debug -- array out of bounds, null pointer.
- Java also has a runtime Security Manager can check which operations a particular pi of code is allowed to do. As a result, java can run untrusted code in a "sandbox" where for example, it can draw to the screen but cannot access the local file system.

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What is difference between Page-Centric Approach and Page-with-Bean Approach?

Fort Worth JAVA User's Group

Page-with-Bean Approach (MVC Model 1)

```

graph LR
    User((User)) -- request --> JSP[JSP]
    JSP --> Bean[bean]
    Bean --> DB[(database)]
    DB --> Bean
    Bean --> JSP
    JSP -- response --> User
  
```

Web-app = collection of JSPs + beans

- + factors some of the business logic into beans
- insufficient separation of logics

This approach is different from page-centric approach in a way that all the business logic goes into JavaBeans. Therefore, the web application is a collection of JSPs and JavaBeans. But still

presentation, business and data access logic. The maintenance and up-gradation of application becomes a nightmare. Scaling of such kind of application is also difficult and lots of is also get duplicated

Page-Centric Approach

```

graph LR
    User((User)) -- request --> JSP[JSP]
    JSP --> DB[(database)]
    DB --> JSP
    JSP -- response --> User
  
```

Web-app = collection of JSPs

- + easy to get started (and carried away)
- code is a mixture of presentation, business & data access logic: a maintenance nightmare
- won't scale
- lots of duplication

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Question No : 51 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 "vulms" 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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```
import javax.servlet.*;  
import javax.servlet.http.*;
```

```
public class abc extends HttpServlet{  
    public void doPost(HttpServletRequest request, HttpServletResponse response){  
        ServletContext con = this.getServletContext();  
        String uname = con.getParameter("name");  
        String upass = con.getParameter("pass");  
        if(uname.equals("vulms") && upass.equals("admin"))  
            response.sendRedirect("welcome.jsp");  
        else  
            response.sendRedirect("Error.jsp");  
    }  
}
```

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Arrange the following classes in packages. Use suitable name for package:

1. Dbconn.java
2. Input.jsp
3. Home.html
4. Insertdb.java
5. AddUser.html
6. Deletedb.java

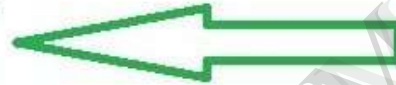
Answer ([Please click here to Add Answer](#))

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1. home.html
2. AddUser.html
3. input.jsp
4. DbConn.java
5. Insertdb.java
6. deletedc.java



My point of view.....

Approx....

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