

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
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(Final Term Past Paper)

(Made by Waqar & Solved By 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!



PAST PAPER

Question No : 1 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);  
g.drawRect(100, 100, 150, 150);
```

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Answer (Please select your correct option)

- ☐ 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 : 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)

☐ 100-199

☒ 200-299

☐ 300-399

☐ 400-499

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ allow the websites to store information on a client machine and later retrieve it.

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Answer (Please select your correct option)

☒ Cookies

☐ Sessions

☐ Panel

☐ Servlet

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Expression is a code fragment which returns _____.

Answer (Please select your correct option)

- ☐ Integer
- ☒ String
- ☐ Depends on the expression
- ☐ Nothing

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

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☐ Integer

☒ String

☐ Depends on the expression

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Question No : 5 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 : 6 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 : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

The default value of scope attribute in JSP useBean action element is _____.

Answer (Please select your correct option)

☒ Page

☐ Request

☐ Session

☐ Application

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

The _____ represent the state of component.

Answer (Please select your correct option)

- ☐ View
- ☒ Model
- ☐ Controller
- ☐ Component

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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Answer (Please select your correct option)

☐ Properties

☒ Elements

☐ Values

☐ Attributes

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following code segment.

```
ArrayList al = new ArrayList();  
Person p = new Person();  
al.add(p);
```

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Answer (Please select your correct option)

☐ Person p = al.get(0);

☐ Person p = al.get(1);

☐ Person p = (Person)al.get(0);

☒ Person p = (Person)al.get(1);

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Question No : 11 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 : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

al.add(p),

What will be the syntax to get an object from the first index of ArrayList?

Answer (Please select your correct option)

☐ Person p = al.get(0) ;

☐ Person p = al.get(1) ;

☐ Person p = (Person)al.get(0) ;

☒ Person p = (Person)al.get(1) ;

may b

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Question No : 11 of 52

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Adapter classes have been defined for listener interfaces having _____ methods.

Answer (Please select your correct option)

- ☐ only one
- ☐ only two
- ☒ more than one
- ☐ more than two

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Question No : 13 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 : 14 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)

☒ Properties

☐ Elements

☐ Values

☐ Attributes

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Question No : 15 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 : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

JavaBean is a/an _____.

Answer (Please select your correct option)

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

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☒ application, session, request, page

☐ request, session, page, application

☐ page, request, session, application

☐ page, session, request, application

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The `getRequestDispatcher()` method of _____ object returns `RequestDispatcher`.

Answer (Please select your correct option)

☐ ServletConfig

☐ ServletRequest

☐ ServletResponse

☒ ServletContext

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The getSession() method of _____ returns HttpSession object.

Answer (Please select your correct option)

☐ HttpServletResponse

☒ HttpServletRequest

☐ ServletConfig

☐ ServletContext

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following statement is FALSE about servlets?

Answer (Please select your correct option)

☐ 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.

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Unpack directory structure of J2EE web application is _____

Answer (Please select your correct option)

☐ Known as Web Archive file (WAR)

☒ Used during development of web application

☐ Used to deploy web application

☐ None of the given options

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Question No : 22 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)

☒ thread, service()

☐ thread, init()

☐ process, service()

☐ process, init()

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following statement is true for an inner class?

Answer (Please select your correct option)

- ☐ It can be defined as static.
- ☐ It can't be defined as private.
- ☐ It can't extend another class.

☒ None of the given options

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Question No : 24 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 : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

WEB-INF folder consists of _____

Answer (Please select your correct option)

☒ a) web.xml

☐ b) classes and lib directory

☐ Both a and b

☐ None of the given options

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT a part of http response?

Answer (Please select your correct option)

☐ Result Code

☒ URI

☐ Header fields

☐ Body

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Initialization _____ of web application are also called _____

Answer (Please select your correct option)

☒ Parameters, context attributes

☐ Context attributes, parameters

☐ Parameters, Variables

☐ Context attributes, variables

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Question No : 28 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 : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

-----can be used to specify dynamic attribute values for JSTL actions without using full-blown programming language.

Answer (Please select your correct option)

☒ Expression Language

☐ Request Time

☐ Both Expression Language and Request Time

☐ None of the given options

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Mouse events can be trapped for _____ GUI component.

Answer (Please select your correct option)

☐ JFrame

☐ JPanel

☐ JButton

☐ All of the given options

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Question No : 31 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)

☐ The Request URL

☐ Input Parameters

☐ Application State

☒ All of the given options

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

WSDL stands for

Answer (Please select your correct option)

☒ Web Service Description Language

☐ Web Service Database Language

☐ Web Service Data Language

☐ None of the given options

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

JSF is _____ based framework

Answer (Please select your correct option)

☐ Both event and request/response

☐ Request/Response

☒ Event

☐ None of the given options

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Identify which one is up casting?

Answer (Please select your correct option)

☐ double b = 10; int a=(int)b;

☐ long b = 10; int a=(int)b;

☐ int b = 10; double a =b;

☐ double a = 10; int b = (int)a;

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Which package contains JOptionPane?

Answer (Please select your correct option)

☐ java.util

☒ javax.swing

☐ java.awt

☐ java.lang

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

What is not correct about Adapters:

Answer (Please select your correct option)

☒ Implements interfaces.

not sure

☐ Provide implementation of all methods of interface.

☐ Provide implementation of methods with empty bodies.

☐ They can be extended more than one at a time.

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Stream is an abstraction of hard drive same as socket is an abstraction of _____.

Answer (Please select your correct option)

☒ network

☐ file

☐ data

☐ memory

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Question No : 38 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 : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Implicit objects are present within which of the following?

Answer (Please select your correct option)

☐ JSP comments

☐ JSP tags

☒ JSP Expressions

☐ JSP Declarations

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In order to run our web application, we should place our application in which of the following folder?

Answer (Please select your correct option)

☐ common folder

☒ webapp folder

not sure

☐ shared folder

☐ bin folder

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

When do we need to make abstract class?

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



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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

How clients find web services?

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

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Request of one page can be dispatched to other page using two methods. Write the code syntax of both methods.

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

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

How we write **include** directive in JSP page. Write only JSP code syntax.

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

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a method drawJava() that chooses random color from the standard RGB colors and prints "Hello" at 100 different locations with the specified color.

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

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Does java support automatic type conversion? Support your answer.

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



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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose two initialization parameter values are defined in xml file. Being a java web developer, how you will read the values of both parameters at server end.

Note: Suppose the names of parameters are ipaddress and sender. You are not required to write complete code. Write code which will on values.

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Custom tags have three forms. Write the name of each form.

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



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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Create a server program that receives user's NIC number from client and sends it back to the client whose IP address is: 196.192.1.2 residing on the port 1008. server resides on the 1299 port. The message should be sent in the following format:

"Your [user given NIC number] shall be safe".
You are not supposed to write a client program.

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

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Differentiate between JSP's and servlets with example codes.

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



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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

To simplify code in JSP expressions and scriptlets eight variables or implicit objects are already defined in JSP API. Three of them are already given below. Write the names of other five objects.

0. request
1. response
2. out
3. ...

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Differentiate between web pages and web services?

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

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