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Time taken	57 mins 20 secs
Marks	47.00/50.00
Grade	9.40 out of 10.00 (94 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
In the web deployn	nent descriptor, the tag of tag is used for
a. applying the	filter on the servlet instance
b. accessing or	calling the servlet instance
oc. informing se	rver about the location of servlet in web application directory
d. applying the	security on the servlet instance
The correct answer	is: accessing or calling the servlet instance
The correct answer	is. accessing of calling the serviet instance
Question 2	
Correct	
Mark 1.00 out of 1.00	
provides a wa	y to identify a user across more than one page request or visit to a Web site and to store information about that user.
a. Hidden Field	
o b. URL Rewrite	
c. Session man	agement ✓
od. Cookie	

The correct answer is: Session management

Question 3
Correct
Mark 1.00 out of 1.00
What is servlet?
a. Servlet is a class that extends the capabilities of the servers and responds to the incoming
b. Servlet is an interface that must be implemented for creating any Servlet.
 c. Servlet is an application deployed on the server to create a dynamic web page
d. Servlet is a web component that is deployed on the server to create a dynamic web page
The correct answer is: Servlet is an application deployed on the server to create a dynamic web page
Question 4 Correct
Mark 1.00 out of 1.00
Which method in Action class is executed when request comes? Choose 2
a. Any method define by action mapping.
□ b. Only execute() method
☑ c. execute() is calling by default
d. Any method with no argument and define by action mapping
The correct answers are: execute() is calling by default, Any method with no argument and define by action mapping
The confect displicit calling by deliding the method with no digdinent did deline by delich mapping
Question 5 Correct
Mark 1.00 out of 1.00
In the request life cycle of Struts 2, which component invokes the Interceptors to apply the common functionalities?
 a. FilterDispatcher
b. ActionInvocation
c. ActionMapping
○ d. ActionServlet

The correct answer is: ActionInvocation

Question 6
Correct Mark 1.00 out of 1.00
Mark 1.00 Out of 1.00
Which of the following code is used to get an attribute in a HTTP Session object in servlets?
a. session.updateAttribute(String name)
b. session.getAttribute(String name)
c. session.alterAttribute(String name)
 d. session.setAttribute(String name)
The correct answer is: session.getAttribute(String name)
The correct answer is: sessioning containing name,
Question 7 Correct
Mark 1.00 out of 1.00
Which of the following is correct about PreparedStatement?
which of the following is correct about Prepared statement:
 a. Prepared statements reuse the same execution plan for.
b. Prepared statements reuse the same execution plan for different arguments rather than creating a new execution plan every time
o. Prepared statements use bind arguments, which are sent to the database engine.
d. Prepared statements offer better performance, as they are pre-compiled
The correct answer is: Prepared statements reuse the same execution plan for.
The correct answer is. Trepared statements reuse the same execution plan for.
Question 8 Correct
Mark 1.00 out of 1.00
Which of the following statements about the Servlet is false?
Select one:
 a. Servlets are portable
 b. Initialization code in servlets is executed every time the program is made to run
○ c. None of the others
 d. Servlets are easy to use
e. All of the others

The correct answer is: Initialization code in servlets is executed every time the program is made to run

Question 9
Correct
Mark 1.00 out of 1.00
You are given a tag library that has a tag named printReport. This tag may accept an attribute, department, which cannot take a dynamic value. Which of the following are correct uses of this tag? (Select two)
Select one or more:
✓ a. <mylib:printreport></mylib:printreport>
b. <mylib:printreport> <jsp:attribute name="department" value="finance"></jsp:attribute> </mylib:printreport>
c. <mylib:printreport attribute="department" value="finance"></mylib:printreport>
d. <mylib:printreport attribute="department" attribute-value="finance"></mylib:printreport>
The correct answers are: <mylib:printreport></mylib:printreport> , <mylib:printreport department="finance"></mylib:printreport>
Question 10
Correct
Mark 1.00 out of 1.00
CRUD stands for:
 a. create, read, upload, and download
 b. concurrency, ready, update, and dependency
c. create, read, update, and delete
Od. connect, read, update, and delete

The correct answer is: create, read, update, and delete

Question 11
Correct
Mark 1.00 out of 1.00
includes a static file in a JSP file, parsing the file's JSP elements (choose the most correct one)
Select one:
○ a. <jsp:include></jsp:include>
b. import directive
○ c. <jsp:usebean></jsp:usebean>
d. include directive
<pre>e. <jsp:forward></jsp:forward></pre>
The correct answer is: include directive
The correct district is, include directive
Question 12
Incorrect Mark 0.00 out of 1.00
Wark 0.00 out of 1.00
Which symbol is used for parameter substitution in PreparedStatement?
○ b. *
○ c.?
○ d. +
The correct answer is: ?
Question 13 Incorrect
Mark 0.00 out of 1.00
A JSP page needs to generate an XML file. Which attribute of page directive may be used to specify that the JSP page is generating an XML
file.
<pre>a. <%@page contentType = "text/html"></pre>
b. <%@page contentType = "html/xml">
c. <%@page contentType = "text/xml">
d. <%@page contentType = "xml">
• G. The page contentrype - Ann 2
The correct answer is: <%@page contentType = "text/xml">

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```
Question 14
Correct
Mark 1.00 out of 1.00
```

Please correct the code as bellowing, supposed that the parameters in sql has String value.

```
public void addStudent(Student student) {
  String sql = "INSERT INTO studentTBL(first_name, last_name, email)\n"
       + "VALUES (?, ?, ?);";
  ConnectDB db = ConnectDB.getInstance();
  Connection con;
  try {
    con = db.openConnection();
    PreparedStatement statement = con.prepareStatement(sql);
                      (1, student.getFirstName());
                      (2, student.getLastName());
                      (3, student.getEmail());
    statement.execute();
    statement.close();
    con.close();
  } catch (Exception ex) {
    Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
```

- a. statement.setString
- b. statement.setValueString
- c. statement.setString()
- d. statement.setTypeCastString

Your answer is correct.

The correct answer is: statement.setString

Question **15**Correct
Mark 1.00 out of 1.00

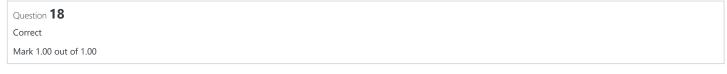
Which of these characteristics of a filter is true?

- a. An authentication filter tracks the activities of users of a Web application
- b. Filters used to store session
- o c. A filter is an object that is invoked at the preprocessing and postprocessing of a request.
- d. A logging and auditing filter allow users to log in to a Web application

The correct answer is: A filter is an object that is invoked at the preprocessing and postprocessing of a request.

Question 16
Correct
Mark 1.00 out of 1.00
Which of the following is not component of MVC architecture?
○ b. Model
○ c. Controller
○ d. View
The correct answer is: XML
Question 17
Correct
Mark 1.00 out of 1.00
What is NOT CORRECT about JSP Filter
 a. Init method is called by the JSP Filter to indicate to a filter
 b. Filter manipulate responses from server before they are sent back to the client.
 c. doFilter method is called by the container each time a request/response pair is passed through the chain due to a client request for a resource at the end of the chain
 d. Filter intercept requests from a client before they access a resource at back end.

The correct answer is: Init method is called by the JSP Filter to indicate to a filter



```
Suppose we have the model Calculator Model class, please fill in the blank to add the value of model to the object request.
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     String num1 = request.getParameter("num1");
     String num2 = request.getParameter("num2");
     String action = request.getParameter("action");
     CalculatorModel model = new CalculatorModel(Float.parseFloat(num1),
          Float.parseFloat(num2), action);
                        ("RS", model);
     request.getRequestDispatcher("result.jsp").include(request, response);
   a. request.setValueOf
   b. request.getRequestDispatcher
   c. request.setAttribute
   d. request.getAttribute
 Your answer is correct.
 The correct answer is:
 request.setAttribute
Question 19
Correct
Mark 1.00 out of 1.00
```

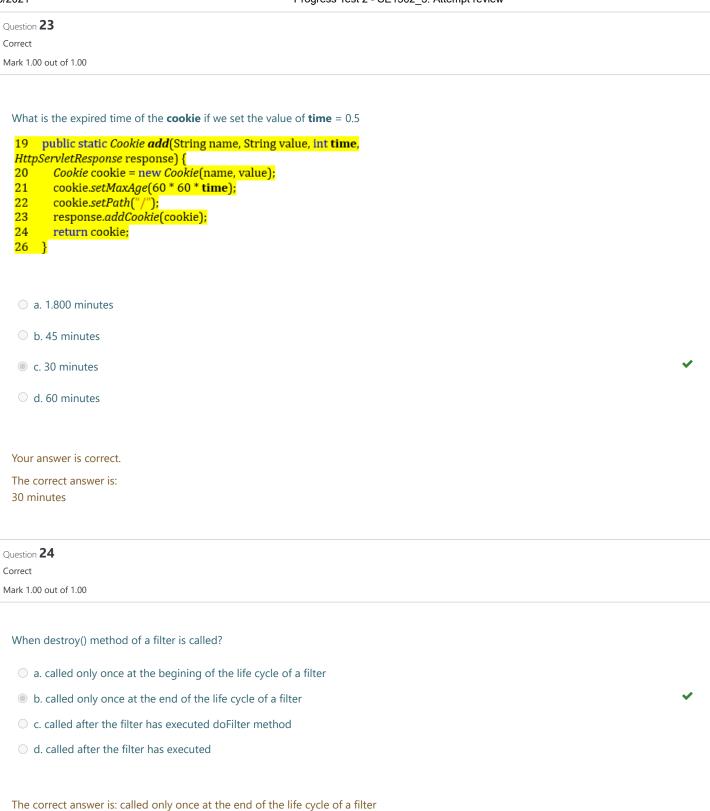
What is INCORRECT about the GET method

- a. Should never be used when dealing with sensitive data
- b. is one of the most common HTTP methods.
- o c. Used for sending huge amounts of information having visible in a URL.
- d. Used to request data from a specified resource.

The correct answer is: Used for sending huge amounts of information having visible in a URL.

Question 20	
Correct	
Mark 1.00 out of 1.00	
When a JSP page is translated, what is it turned into?	
a. Application	
○ b. Midlet	
○ c. Applet	
d. Servlet	
The correct answer is: Servlet	
Question 21	
Correct M. J. 1.00 p. J. 1.51.00	
Mark 1.00 out of 1.00	
JSP let you insert arbitrary code into the servlet's _JspService() method.	
a. comment	
○ b. custom tag	
d. declarations	
The correct answer is: scriptlets	
Question 22	
Correct	
Mark 1.00 out of 1.00	
In a web application Where filters are defined?	
In a web application, Where filters are defined?	
a. Filters are defined in the ServletRequest	
 b. Filters are defined in the jsp pages. 	
o c. Filters are defined in the ServletContext	
 d. Filters are defined in the deployment descriptor file web.xml 	

The correct answer is: Filters are defined in the deployment descriptor file web.xml



Question 25 Correct
Mark 1.00 out of 1.00
Which of the following listeners will respond to events that a request comes to server or gets out of its scope?
 a. ServletResponseListener
○ b. ServletContextListener
○ c. ServletRequestAttributeListener
d. ServletRequestListener
The correct answer is: ServletRequestListener
Question 26 Correct
Mark 1.00 out of 1.00
Why use RequestDispatcher to forward a request to another resource, instead of using a sendRedirect? a. Redirects are no longer supported in the current servlet API. b. The RequestDispatcher does not use the reflection API. c. The RequestDispatcher does not require a round trip to the client, and thus is more efficient and allows the server to maintain request state. d. Redirects are not a cross-platform portable mechanism. The correct answer is: The RequestDispatcher does not require a round trip to the client, and thus is more efficient and allows the server to maintain request state.
Question 27 Correct Mark 1.00 out of 1.00
What is the key difference between using a and HttpServletResponse.sendRedirect()?
a. forward is a action, sendRedirect() is a method
b. Both the same
c. forward executes on the client while sendRedirect() executes on the server.
 d. forward executes on the server while sendRedirect() executes on the client.

The correct answer is: forward executes on the server while sendRedirect() executes on the client.

Question 28
Correct Marks 100 page of 100
Mark 1.00 out of 1.00
Which attribute of @page define an jsp page to be an error page?
○ a. "false"
○ b. session.setAttribute("false")
○ c. isErrorPage
⊕ d. isErrorPage ✓
e. session.setAttribute("true")
○ f. "true"
The correct answers are: isErrorPage, "true", "false"
Question 29 Correct
Mark 1.00 out of 1.00
DriverManager.getConnection(,,)
What is the order of parameters included?
a. Password, URL where server runs, UserID
b. URL where server runs; Password, UserID
c. User ID, Password, URL where server runs
 d. URL where server runs, UserID, Password
The correct answer is: URL where server runs, UserID, Password
THE CONTEST BILLIANCE IS. ONE WHELE SELVEL TURIS, OSERID, FRASSWOLD
Question 30 Correct
Mark 1.00 out of 1.00
Which tag is used to insert java source code in JSP?
 a. Application tag
b. Declaration Tag
⊚ c. Scriptlet tag ✓
d. Expression tag
© G. Expression ag

The correct answer is: Scriptlet tag

```
Question 31
Correct
Mark 1.00 out of 1.00
 When compiling a project in java web, which of the following error codes is associated with the "Resource not found" message?
  a. 403
  o b. 500
  oc. 404
  Od. 400
 The correct answer is: 404
Question 32
Correct
Mark 1.00 out of 1.00
 What is the out put of this code?
  <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
  <html>
    <head>
      <title>Tag Example</title>
    </head>
    <body>
      <c:forEach var="product" begin="0" end="10" step="2">
        ${ product}
      </c:forEach>
    </body>
  </html>
  a. var="item" begin="0" end="10" step="2"
  b. 0 2 4 6 8 10
  o. 012345678910
  d. ${ product}
 Your answer is correct.
 The correct answer is:
 0246810
```

Question **33**Correct
Mark 1.00 out of 1.00

Suppose we have the model class Student {private int id;}, now to set up a link for "Update" Action in jsp page and then send the Id value of **student** object to the Servlet **StudentControllerServlet**.

First Name	Last Name	Email	Action
TEO	Nguyen	a@b.c	<u>Update</u> <u>Delete</u>
E	F	n@f.h	<u>Update</u> <u>Delete</u>
С	Tran	c@g.t	Update Delete
D	Van	v@d.c	Update Delete

Please choose the the correct code in the space

- <c:url var="tempLink" value="StudentControllerServlet">
 - <c:param name="command" value="UPDATE" ></c:param>
 - <c:param name="studentId" value=" "></c:param>
- </c:url>
- a. \${student.id}
- b. \${student}
- c. {student.id}
- d. @{student.id}

Your answer is correct.

The correct answer is: \$\{\text{student.id}\}

```
Question 34
Correct
Mark 1.00 out of 1.00
```

_____, when the web developers want to include the value of *command* and *studentID* without Please choose the option in the blank ___ being seen or modified by users when a form is submitted? 7 <%@page contentType="text/html" pageEncoding="UTF-8"%> 8 <!DOCTYPE html> 9 <html> 10 <head> <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> 11 12 <title>JSP Page</title> </head> 13 14 <body> <form action="StudentControllerServlet" method="GET"> 15 <input type=______ name="command" value="UPDATE">
<input type=______ name="studentId" value="\${THE_STUDENT.id}">
Name:<input type="text" name="firstName" value="\${THE_STUDENT.firstName}"> 16 17 18 <input type="submit" value="UPDATE" class="save" /> 19 20 </form> 21 </body> 22 </html> a. "submit" & "text" ob. "hidden" & "text" c. "hidden" & "hidden" od. "submit" & "submit" Your answer is correct. The correct answer is: "hidden" & "hidden"

Question **35** Correct Mark 1.00 out of 1.00

Which HTTP method is used when sending request from the browser?

- a. SET
- O b. PUT
- c. GET
- d. POST

The correct answers are: GET, POST

Question 36
Correct Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
Which statements about JDBC are NOT true?
 a. It consists of a set of classes and interfaces written in the Java programming language.
 b. JDBC provides a standard API for tool/database developers and makes it possible to write database applications using a pure Java API.
◎ c. JDBC is a Java database system.
 d. The combination of Java and JDBC lets a programmer write it once and run it anywhere.
The correct answer is: JDBC is a Java database system.
Question 37 Correct
Mark 1.00 out of 1.00
Choose the statement that best describes the relationship between JSP and servlets:
two technologies are not useful in combination.
○ b. JSP and servlets are unrelated technologies.
 c. JSPs are built on servlet semantics and all JSPs are translaled to servlets for runtime usage.
 d. Servlets are built on JSP semantics and all servlets are compiled to JSP pages for runtime usage.
The correct answer is: JSPs are built on servlet semantics and all JSPs are translaled to servlets for runtime usage.
Question 38
Correct
Mark 1.00 out of 1.00
to contract, and the contract from the convention of the convention decreased and
In order to get the value from the request parameter, please choose the correct code
a. String theStudentId = request.getStudent("studentId");
b. String theStudentId = request.getParameter("studentId");
c. String theStudentId = getParameter("studentId");
d. String theStudentId = request.getID("studentId");
The correct answer is: String theStudentId = request.getParameter("studentId");

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```
Question 39
Correct
Mark 1.00 out of 1.00
 In JSTL, which type of Java conditional statement is the tag similar to?
  a. when
   b. switch
  C. if
   d. foreach
 The correct answer is: switch
Question 40
Correct
Mark 1.00 out of 1.00
 Choose the corect JSTL statement to check whether the emptyCart is empty or not?
  a. <c:if test="${emptyCart == null}">
              Your cart is empty.
        </c:if>
  \bigcirc b. <if test="${emptyCart == null}">
              Your cart is empty.
        </if>
  c. <c:if var="${emptyCart == null}">
              Your cart is empty.
        </c:if>
  d. <c:if var="${emptyCart == empty}">
              Your cart is empty.
        </c:if>
 Your answer is correct.
 The correct answer is:
 <c:if test="${emptyCart == null}">
        Your cart is empty.
```

</c:if>

Question 41
Correct Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
Which of the falleuries is not a valid time of statement in IDBC?
Which of the following is not a valid type of statement in JDBC?
a. Statement
○ b. CallableStatement
⊚ c. QueryStatement ✓
○ d. PreparedStatement
The correct answer is: QueryStatement
Question 42
Correct
Mark 1.00 out of 1.00
The value of session timeout in web deployment descriptor using the unit of
○ a. Millisecond
b. Second
○ c. Hour
d. Minute
The correct answer is: Minute
Question 43
Correct Mark 1.00 out of 1.00
When compiling a project in java web, which of the following error code indicates an error inside the HTTP server which prevents it from
fulfilling the request?
○ a. 400
○ b. 404
© c. 403

The correct answer is: 500

```
Question 44
Correct
Mark 1.00 out of 1.00
```

What is the purpose of this code?

```
7 <%@page contentType="text/html" pageEncoding="UTF-8"%>
8 <! DOCTYPE html>
9 <html>
10 <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
11
12
      <title>JSP Page</title>
      <jsp:useBean id="user" class="model.User" scope="session">
13
      </jsp:useBean>
14
      <jsp:setProperty name="user" property="*"/>
15
      </head>
      <body>
16
17
18
        First Name: <jsp:getProperty name="user"
19
property="firstName"></jsp:getProperty>
        </br>
21
        Last Name: <jsp:getProperty name="user"
property="lastName"></jsp:getProperty>
22 </body>
23 </html>

    a. Delete properties of a bean object user

    b. Update properties of a bean object user
```

- c. Get properties of a bean object user
- Od. Set properties of a bean object user

Your answer is correct.

The correct answer is:

Get properties of a bean object user

```
Question 45
Incorrect
Mark 0.00 out of 1.00
```

What is the purpose of this code?

```
72  protected void doPost(HttpServletRequest request, HttpServletResponse response)
73  throws ServletException, IOException {
74  String username = request.getParameter("username");
75  String password = request.getParameter("password");
76  if (username.equals("admin") && password.equals("abc123")) {
77   RequestDispatcher rd = request.getRequestDispatcher("admin/index.jsp");
78   rd.forward(request, response);
79  }}
```

- a. Checking whether the username equals "admin" and password equals "abc123" or not. If yes, forward the requests to adminindex.jsp
- b. Checking whether the username equals "admin" and password equals "abc123" or not.
- c. Setting the value of username = "admin" and password = "abc123"
- od. Checking whether the username equals "admin" and password equals "abc123" or not. If yes, forward the requests to index.jsp

Your answer is incorrect.

The correct answer is:

Checking whether the username equals "admin" and password equals "abc123" or not. If yes, forward the requests to index.jsp

```
Question 46
Correct
Mark 1.00 out of 1.00
 What is the output?
  <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
     <head>
       <title>Tag Example</title>
    </head>
    <body>
       <c:set var="name" value="Final Test"/>
       <c:out value="${name}" default="StudyTonight" />
    </body>
  </html>
   a. Final Test
   b. StudyTonight
   c. Final Test StudyTonight
   d. StudyTonight Final Test
 Your answer is correct.
 The correct answer is:
 Final Test
Question 47
Correct
Mark 1.00 out of 1.00
 Which of the following SQL options is suitable for using PreparedStatement?
   a. SQLSetConnectOption(conn, SQL AUTOCOMMIT, 0)
   b. insert into departmentTBL values(x,x,x)
   o. SQLTransact(conn, SQL ROLLBACK)
   d. insert into departmentTBL values(?,?,?)
 The correct answer is: insert into departmentTBL values(?,?,?)
```

Question 48	
Correct Mark 1.00 out of 1.00	
Please choose to correct statement to include a header,jsp page in to an jsp page?	
a. <jsp:includes page="/includes/header.jsp"></jsp:includes>	
<pre>b. < page="/includes/header.jsp" /></pre>	
c. <jsp:include page="/includes/header.jsp"></jsp:include>	
d. <include page="/includes/header.jsp"></include>	
Your answer is correct.	
The correct answer is:	
<jsp:include page="/includes/header.jsp"></jsp:include>	
Question 49	
Correct	
Mark 1.00 out of 1.00	
Which method is used to perform DML statements in JDBC?	
a. executeUpdate()	
b. executeQuery()	
C. execute()	
○ d. executeResult()	
The correct answer is: executeUpdate()	
Question 50	
Correct	
Mark 1.00 out of 1.00	
Which method among the following options belongs to HttpSessionAttributeListener?	
a. public void removeValue(java.lang.String name)	
b. public void attributeAdded(HttpSessionBindingEvent se)	
c. public void setAttribute(java.lang.String name, java.lang.Object value)	
d. public void setMaxInactiveInterval(int interval)	

The correct answer is: public void attributeAdded(HttpSessionBindingEvent se)