

Quiz name: **Advanced Java Final Exam Review**

Question with Most Correct Answers: **#14**

Question with Fewest Correct Answers: **#7**

Date: **05/02/2016**

Total Questions: **16**

1. Which of the following are true about JDBC API?

- 8/8 ☒ A Makes it possible to:
1) Establish a connection with a database
2) Send SQL statements
3) Process the results
- 7/8 ☒ B Provides metadata access, like column size and type.
- 7/8 ☒ C Hides the complexity of many data access tasks, i.e., doing most of the "heavy lifting" for the programmer behind the scenes.
- 8/8 ☒ D Uses URLs to identify database connections.

2. Which code snippet below will load the driver class file into RAM and make it available to your code?

- 0/8 ☐ A Statement statement = connection.createStatement();
- 3/8 ☐ B connection = DriverManager.getConnection(url);
- 5/8 ☒ C Class.forName("com.mysql.jdbc.Driver");
- 0/8 ☐ D JDBC.loadDriver("com.Oracle.jdbc.Driver");

3. The statement's executeUpdate() method returns:

- 1/8 ☐ A a result set from the database.
- 4/8 ☒ B an int for the number of rows updated.
- 1/8 ☐ C a boolean indicating a successful update.
- 2/8 ☐ D a String value of 0 or -1.
- 0/8 ☐ E void.

4. Which of the following are true of JSTL?

- 3/8 ☐ A Stands for Java Server Technology Library.
- 7/8 ☒ B Provides **if** logic.
- 7/8 ☒ C Provides **foreach** looping through all types of data collections.
- 1/8 ☐ D Cannot be combined with EL (Expression Language).
- 6/8 ☒ E Is case sensitive.

5. Which of the following is an example of JSP Expression Language (EL)?

- 6/8 ☒ A \${results.name}

- 1/8 ☐ B <%= results.getName() %>
1/8 ☐ C <% String name = results.getName(); %>
0/8 ☐ D String name = results.getName();
-

6. To use any of the JSTL libraries, you must include a <taglib> directive at the top of each JSP that uses the library.
8/8 ☒ A True
0/8 ☐ B False
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7. Which of the following are true of forwarding an HTTP Request to another resource?
6/8 ☒ A Servlet or JSP uses the RequestDispatcher to transfer control.
5/8 ☒ B Control is transferred entirely on the server. No network traffic is involved.
5/8 ☐ C The syntax to forward is: response.forwardRequest(url);
5/8 ☒ D The user does not see the address of the destination JSP page.
-

8. Which of the following are true of redirecting?
8/8 ☒ A The syntax is: response.sendRedirect(url);
8/8 ☒ B Servlets use HTTP to transfer control.
6/8 ☒ C The user sees the address of the destination page and can bookmark it.
2/8 ☐ D The transfer does not require additional network traffic.
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9. Which of the following are true of JavaBeans?
8/8 ☒ A Are just regular java classes that follow special rules.
8/8 ☒ B Represent the data in MVC.
5/8 ☒ C Must have a zero argument constructor.
2/8 ☐ D Should have only public instance variables.
1/8 ☐ E Should not have getters or setters.
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Review this code for a JavaBean.

If a JSP contained the following code: `${studentBean.age}`, what does that code actually do?

10.

- 0/8 ☐ A Calls the setAge() method.
- 5/8 ☒ B Calls the getAge() method.
- 3/8 ☐ C Accesses the age variable directly.
- 0/8 ☐ D Sets the age variable.

```
public class StudentBean implements java.io.Serializable {
    private String firstName = null;
    private String lastName = null;
    private int age = 0;

    public StudentBean() {
    }

    public String getFirstName(){
        return firstName;
    }

    public String getLastName(){
        return lastName;
    }

    public int getAge(){
        return age;
    }

    public void setFirstName(String firstName){
        this.firstName = firstName;
    }

    public void setLastName(String lastName){
        this.lastName = lastName;
    }

    public void setAge(Integer age){
        this.age = age;
    }
}
```

Review this code for a JavaBean.

11. If a JSP contained the following code: `${studentBean.age}`, age would be considered to be property of the javabeen.

- 4/8 ☒ A True
- 4/8 ☐ B False

```
public class StudentBean implements java.io.Serializable {
    private String firstName = null;
    private String lastName = null;
    private int age = 0;

    public StudentBean() {
    }

    public String getFirstName(){
        return firstName;
    }

    public String getLastName(){
        return lastName;
    }

    public int getAge(){
        return age;
    }

    public void setFirstName(String firstName){
        this.firstName = firstName;
    }

    public void setLastName(String lastName){
        this.lastName = lastName;
    }

    public void setAge(Integer age){
        this.age = age;
    }
}
```

12. To track the number of visits (number of requests our application received) using a bean component, the bean should be stored in:

- 1/8 ☐ A The Session.
- 1/8 ☐ B The Request.
- 0/8 ☐ C The Page.
- 6/8 ☒ D The Servlet Context.

13. In MVC architecture, the optimal role of a JSP page is:

- 0/8 ☐ A model
- 6/8 ☒ B view
- 1/8 ☐ C controller
- 1/8 ☐ D both model and controller

14. In MVC architecture, the optimal role of a servlet is:

- 0/8 ☐ A model, view and controller
- 0/8 ☐ B view
- 0/8 ☐ C model
- 8/8 ☒ D controller
- 0/8 ☐ E model and controller

15. JavaBeans have scope, just like all variables. Which of the following are valid scopes for a JavaBean in a JSP?

- 8/8 ☒ A Page

- 3/8 ☒ B Application
 - 2/8 ☐ C Servlet
 - 8/8 ☒ D Session
 - 8/8 ☒ E Request
-

16. Which of the following are techniques for Session Tracking?

- 8/8 ☒ A Cookies
- 8/8 ☒ B Hidden Form Fields
- 7/8 ☒ C URL Rewriting
- 6/8 ☒ D HttpSession API