

QUESTION BANK
MODULE NAME: Fundamentals of Java Enterprise Components

Category - Simple

1) Fill in the blank with single option:

A _____ client consists of two parts – dynamic Web pages and Web browsers.

☐ a) Application

☐ b) Applet

☒ c) Web

☐ d) JavaBean

2) In _____ topology, each node is connected to exactly two other nodes, with the last node connecting to the first node forming a circular ring.

☐ a) Star

☐ b) Bus

☐ c) Tree

☒ d) Ring

3) The _____ method returns the context in which the servlet is executing.

☐ a) `getInitParameter()`

☒ b) `getServletContext()`

☐ c) `getInitParameterNames()`

☐ d) `getServletName()`

4) The _____ class is used to register a bean validator for the component; the corresponding tag is `validateBean`.

Sample Question Paper

- ☒ a) BeanValidator
 - ☐ b) DoubleRangeValidator
 - ☐ c) LengthValidator
 - ☐ d) RegexValidator
- 5) _____ session bean does not maintain any instance variables/state of the session.

- ☐ a) Entity
- ☐ b) Singleton
- ☐ c) Stateful
- ☒ d) Stateless

Category - Average

- 1) **Select the correct answer with multiple options:**
Which of the following statements are true?
- ☒ a) An association between two types of entities is said to be one-to-one when one entity of a type is associated with exactly one entity of another entity type.
 - ☒ b) In a unidirectional relationship, only one entity has a relationship field or property that refers to the other.
 - ☐ c) In case of bidirectional relationship, both the participating entities are termed as owner.
 - ☒ d) In a many-to-one relationship, represented using the `mappedby` attribute, the many side of the relationship should be the owner side of the relationship.

2) Select the correct answer with single option:

Which of these statements about entity inheritance are true?

- ☐ a) Similar to abstract classes, mapped superclasses are also entities.
- ☐ b) Entities cannot have non-entity superclasses.
- ☒ c) The abstract entities cannot be instantiated.
- ☐ d) According to a single table per class hierarchy, all the classes in a hierarchy are mapped to individual tables.

3) Select the correct answer with single option:

Identify the correct annotation to include the `UserTransaction` class.

- ☐ a) `@Resource`
`javax.UserTransaction utx;`
- ☐ b) `@Resource`
`java.UserTransaction utx;`
- ☐ c) `@Resource`
`transaction.UserTransaction utx;`
- ☒ d) `@Resource`
`javax.transaction.UserTransaction utx;`

4) Select the correct answer with single option:

The method marked with which of the following annotations is used to extract parameters with respect to the path of the Web service from the URI for further processing?

- ☐ a) `@Path`
- ☒ b) `@PathParam`

☐ c) @Consumes

☐ d) @Produces

5) Match the following:

Managed Bean Scope

Description

- | | |
|----------------|---|
| A) request | 1) Implies that the bean is available for Ajax requests. |
| B) session | 2) Implies that the bean is available as long as the application is active on the server. |
| C) application | 3) Implies that the bean is available for the entire HTTP session. |
| D) view | 4) Implies that the bean is available only for a single HTTP request. |

☒ a) A-4, B-3, C-2, D-1

☐ b) A-2, B-1, C-4, D-3

☐ c) A-1, B-2, C-3, D-4

☐ d) A-3, B-2, C-4, D-1

Category – Difficult

1) Select the correct answer with single option:

Identify the correct method to add context parameters to the web.xml file.

☐ a)


```
<context>
  <param-name>n1</param-name>
  <param-value>100</param-value>
</context>
```

☐ b)


```
<context-param>
  <name>n1</name>
  <value>100</value>
</context-param>
```

- ☒ c) `<context-param>`
`<param-name>n1</param-name>`
`<param-value>100</param-value>`
`</context-param>`
- ☐ d) `<param>`
`<param-name>n1</param-name>`
`<param-value>100</param-value>`
`</param>`

2) Select the correct answer with single option:

Which of the following is not an attribute of @page directive?

- ☐ a) `<%@page import = "java.util.*" %>`
- ☒ b) `<%@page content = "text/plain" %>`
- ☐ c) `<%@page isThreadSafe = "true" %>`
- ☐ d) `<%@page autoflush = "true" %>`

3) Select the correct answer with single option:

Identify the correct code to place a non-null and size constraint on the field `employeeName` of a JavaBean component.

- ☐ a) `@Null`
`@Size(1, 20)`
`private String employeeName;`
- ☐ b) `@NotNull`
`@Size(1, 20)`
`private String employeeName;`
- ☐ c) `@Size(min=1, max=20, null=false)`
`private String employeeName;`

☒ d) `@NotNull`
`@Size(min=1, max=20)`
`private String employeeName;`

4) **Select the correct answer with multiple options:**
Which of the following are valid transaction attribute types?

- ☒ a) `TransactionAttributeType.REQUIRED`
- ☒ b) `TransactionAttributeType.MANDATORY`
- ☒ c) `TransactionAttributeType.NOTSUPPORTED`
- ☐ d) `TransactionAttributeType.NOTREQUIRED`

5) **Select the correct answer with single option:**

Identify the correct annotation for declaring all the roles that will have access to a class.

- ☒ a) `@DeclareRoles({"Administrator", "Faculty", "Student"})`
- ☐ b) `@RolesAllowed({"Administrator", "Faculty", "Student"})`
- ☐ c) `@PermitRoles({"Administrator", "Faculty", "Student"})`
- ☐ d) `@AuthorizedRoles({"Administrator", "Faculty", "Student"})`