

Section:

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Q40

Select the list of clients a RESTful web service can support  
Single Choice - Select one correct answer from the options list.

- Java Web client
- .NET client
- standalone Java application
- None of the above

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**Q39**

```
@Entity  
@Table(name="draft_details")  
public class DemandDraft implements Serializable {  
    @Id  
    //line1  
    private int transactionId;  
    private int amount;  
}
```

In the above class for generating transactionId automatically, which of the given annotation should be added at line 1?

*Single Choice - Select one correct answer from the options list.*

- @GeneratedValue(strategy=GenerationType.AUTO)
- @GeneratedValue(type=GenerationType.AUTO)
- @GeneratedValue(type=AUTO)
- @GeneratedValue(strategy=AUTO)

Section: 1

**Q38**

Which of the given below is Spring4 annotation for implementation of Restful web services?  
Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.

- @RestController
- @PathVariable
- @Controller
- @RequestMapping

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**Q38**

Which of the given below is Spring4 annotation for implementation of Restful web services?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- @RestController
- @PathVariable
- @Controller
- @RequestMapping

Given below is the code snippet. Which of the following request will invoke the prepareLogin() method of the Login obj.

String url = "http://localhost:8080/demo/admin/prepareLogin.obj";

String url = "http://localhost:8080/demo/admin/prepareLogin.obj";

String url = "http://localhost:8080/demo/admin/prepareLogin.obj";

String url = "http://localhost:8080/demo/admin/prepareLogin.obj";

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Q37

```
@Controller  
@RequestMapping(value="admin")  
public class AdminController {  
    @RequestMapping(value="/adminLogin")  
    public String prepareLogin(Model model)  
    {  
        model.addAttribute("login", new Login());  
        return "login";  
    }  
}
```

Refer to the above code snippet of the Controller, which of the following request will invoke prepareLogin method, assuming application name is ProductDemo and following url-mapping is given for dispatcher servlet in web.xml?

<url-pattern>\*.obj</url-pattern>

Single Choice - Select one correct answer from the options list.

- http://localhost:8080/ProductDemo/admin/adminLogin.obj
- http://localhost:8080/ProductDemo/adminLogin.obj
- http://localhost:8080/ProductDemo/admin/prepareLogin.obj
- http://localhost:8080/ProductDemo/prepareLogin.obj

Section: **1****Q36**

Class implementing "Controller" in Spring MVC, must implement \_\_\_\_\_ method.  
*Single Choice - Select one correct answer from the options list.*

- processRequest
- handleRequest
- requestHandler
- handleProcess

Section: 1

**Q35**

Select the most appropriate code to create a Web service end-point interface  
*Single Choice - Select one correct answer from the options list.*



```
@WebService
public interface Book {
    @WebMethod
    float getPrice(String bookName);
}
```



```
@WebMethod
@SOAPBinding(style = Style.RPC)
public interface Book {
    @WebService
    float getPrice(String bookName);
}
```



```
@WebService
@SOAPBinding(style = Style.RPC)
public interface Book {
    @WebMethod
    float getPrice(String bookName);
}
```



```
public interface Book {
    @WebMethod
    float getPrice(String bookName);
}
```



```
@WebService
public interface Book {
    float getPrice(String bookName);
}
```

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Section: 1

**Q34**

Which of the following annotation inject EntityManager ?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- @PersistenceUnit
- @PersistenceContext
- @Persistence
- @Context

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**Q33**

\_\_\_\_\_ type of joinpoints are supported in Spring AOP.

*Single Choice - Select one correct answer from the options list.*



Method



Constructor



Interface



Both A and B are correct



All are correct

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**Q32**

Which of the given interface is used by application developers to interact with the JPA runtime?

*Single Choice - Select one correct answer from the options list.*

- Persistance
- EntityManagerFactory
- EntityManager
- EntityTransaction

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**Q31**

The inverse side of a bidirectional relationship must refer to its owning side by using which of the following element of the @OneToOne, @OneToMany , @ManyToMany annotation?

*Single Choice - Select one correct answer from the options list.*

- joinMappedBy
- mapped
- mappedBy
- map

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`<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
 <property name="managerFactory" ref="entityManagerFactory"/>  
 </bean>  
 <tx:annotation-driven transaction-manager="transactionManager"/>`

`<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
 <property name="entityManagerFactory" ref="entityManagerFactory"/>  
 </bean>  
 <tx:annotation-driven transaction="transactionManager"/>`

`<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
 <property name="entityManagerFactory" ref="entityManagerFactory"/>  
 </bean>  
 <tx:annotation-driven transaction-manager="transactionManager"/>`

`<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
 <property name="entityManagerFactory" ref="entityManagerFactory"/>  
 </bean>  
 <tx:annotation transaction-manager="transactionManager"/>`

Section: 1

Q30

Which of the following has to be configured in xml to handle transactions via Annotations  
Single Choice - Select one correct answer from the options list.



<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
<property name="entityManagerFactory" ref="entityManagerFactory"/>  
</bean>  
<tx:annotation-driven transaction-manager="transactionManager"/>



<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
<property name="entityManagerFactory" ref="entityManagerFactory"/>  
</bean>  
<tx:annotation-driven transaction="transactionManager"/>



<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
<property name="entityManagerFactory" ref="entityManagerFactory"/>  
</bean>  
<tx:annotation-driven transaction-manager="transactionManager"/>



<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">  
<property name="entityManagerFactory" ref="entityManagerFactory"/>  
</bean>

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**Q29**

What is true regarding following JSP code snippet?

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<body>
<h1>Registered Successfully!!!!</h1>
<h2>User Info</h2>
First Name : ${user.firstName}<br/>
Last Name : ${user.lastName}<br/>
Gender: ${user.gender}<br/>
eMail : ${user.email}<br/>
```

*Single Choice - Select one correct answer from the options list.*

Controller should have a mapped method with following arguments: (@ModelAttribute("user") @Valid UserBindingResult result, Model model) Where "User" class has data members firstName, lastName, gender, email with getter setter methods for accessing them.



Controller should have a mapped method with following code: model.addAttribute("user", logindetails); where "model" is object of Model and logindetails is Object of type User



Controller should have a mapped method with following code: model.addAttribute("logindetails", user); where "model" is object of Model and user is Object of type User



\$ sign is not allowed in JSP. It should be replaced by #.

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**Q28**

In Spring AOP, \_\_\_\_\_ defines reusable pointcut within an aspect.  
*Single Choice - Select one correct answer from the options list.*



"@Pointcut("execution(\* training.spring.aop.\* \*(..))")  
public void businessMethods() { //Some processing is written here }"



"@Pointcut("execution(\* training.spring.aop.\* \*(..))")  
public void businessMethods() {}"



"@Pointcut("execution( training.spring.aop.\* \*(..))")  
public void businessMethods() { //Some processing is written }"



"@Pointcut("execution(training.spring.aop.\* \*(..))")  
public void businessMethods() {}"

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**Q27**

Consider following code in Spring configuration xml file:

```
<bean id="foo" class="com.igate.Foo" autowire="byType" />
```

What will happen if multiple objects for required type are found?

Single Choice - Select one correct answer from the options list.

- Unsatisfied dependency of type [class com.igate.Foo].
- NoSuchBeanDefinitionException
- IllegalStateException
- No error. It will get the first available bean and assign the value

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**Q26**

To be a "controller" in Spring MVC application, class must implement \_\_\_\_\_ interface

Please note that here we are discussing about annotation less configuration

*Single Choice - Select one correct answer from the options list.*



org.springframework.web.mvc.Controller



org.springframework.web.servlet.mvc.Controller



org.springframework.web.servlet.Controller



org.springframework.mvc.Controller

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Q25

Consider we have list of employees and we need to print names of all employees where salary is greater than 10000, which SpEL shall we use?

Single Choice - Select one correct answer from the options list.



```
<property name="empNames"  
value="#{employees.[salary gt 10000] ?[fname + ', ' + lname]}"/>
```



```
<property name="empNames"  
value="#{employees.?[(salary gt 10000) ?[fname + ', ' + lname]]}"/>
```



```
<property name="empNames"  
value="#{employees[salary gt 10000].[fname + ', ' + lname]}"/>
```



```
<property name="empNames"  
value="#{[fname + ', ' + lname] where salary>10000}"/>
```

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**Q24**

Consider following Spring code snippet:

```
@Component("user")
public class UserBean {
    @Value("#{userprops.username}")
    private String username;
    @Value("#{userprops.password}")
    private String password;
```

Which of the following statements are true?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- user is object name of UserBean object.
- userprops is name of property file
- userprops is id of util properties
- To access properties in property file, # should be replaced by \$ in this code.

Section: 1**Q23** Inside the each() loop, what does the word this stand for?*Single Choice - Select one correct answer from the options list.*

- It's a simple way of making the code look more elegant and nicer to look at.
- This is another way of referring to the jQuery object.
- This is another way of referring to the current element chain.
- it refers the index of the current element

Section: 1

**Q22** For Non web spring applications, bean can have \_\_\_\_\_ scope.*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

request



session



global session



prototype



singleton

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**Q21**

```
EntityManagerFactory factory = Persistence  
    .createEntityManagerFactory("JPA-PU");
```

Which of the given statement is true about above code?

*Single Choice - Select one correct answer from the options list.*

- JPA-PU is the name of persistence unit, which must be defined in persistence.xml
- EntityManagerFactory is a class, using which we can create EntityManager
- both 0 and 1
- none of the above

Section:

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**Q20**

Which of the following statements are true?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- Spring beans are by default "singleton"
- "prototype" beans are lazily initialized irrespective of whether ApplicationContext is used or XMLBeanFactory is used
- "prototype" beans are early initialized irrespective of whether ApplicationContext is used or XMLBeanFactory is used
- "prototype" beans are early initialized when ApplicationContext is used and lazily initialized when XMLBeanFactory is used

Section: 1

**Q19**

Which of the given syntax is correct to use @NamedQueries annotation on entity Student for fetching all students?

Single Choice - Select one correct answer from the options list.



```
@Entity  
@Table(name = "students")  
@NamedQueries(  
    @NamedQuery(name = "getAllStudents", query = "SELECT student FROM Student student")  
public class Student implements Serializable { .. }
```



```
@Entity  
@Table(name = "students")  
  
@NamedQuery(name = "getAllStudents", query = "SELECT student FROM Student student")  
public class Student implements Serializable { .. }
```



```
@Entity  
@Table(name = "students")  
@NamedQueries(  
    name = "getAllStudents", query = "SELECT student FROM Student student")  
public class Student implements Serializable { .. }
```



```
@Entity  
@Table(name = "students")  
@NamedQueries(  
    @NamedQuery(type = "getAllStudents", query = "SELECT student FROM Student student")  
public class Student implements Serializable { .. }
```

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**Q18**

```
var parsedJson = [
    {"EmployeeId":1,"Name":"Ganesh"},
    {"EmployeeId":2,"Name":"Ajit"}
];
```



How to retrieve second Employee Name?

*Single Choice - Select one correct answer from the options list.*

- parsedJson(1).Name
- parsedJson.Name[1]
- parsedJson.Name(1)
- parsedJson[1].Name

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**Q17**

Using Spring SpEL, objects of class can be using \_\_\_\_\_ operator.

Single Choice - Select one correct answer from the options list.



#{}



\${}



T



Type

Section: 1

**Q16**

Which of the following are AspectJ pointcut designators supported in Spring AOP?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- execution()
- proxy()
- target()
- package()

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**Q15**

Which of the following statement defines the Spring IO Foundation Layer?

*Single Choice - Select one correct answer from the options list.*

- It is a cohesive set of APIs and embeddable runtime components that enable to build applications
- It provides API's to connect to cloud services
- It provides DSR(Domain-Specific Runtime) for applications built using IO Foundation modules.
- It helps to avoid deployment to an external container like Tomcat

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**Q14**

Consider class Person. "person" bean is created using following code snippet:

```
<bean id="room" class="com.igate.hotel.Room">
    <property name="roomID" value="a0001" />
    <property name="type" value="AC1LE" />
    <property name="rate" value="1000" />
</bean>
```

Which of the following SPEL code can retrieve "rate"?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- `#{{room.getRate()}}`
- `#{{room.getrate()}}`
- `#{{room.rate}}`
- `#{{room.Rate}}`

Section: 1

**Q13**

Which of the following module is not a part of Spring Core Container?

Single Choice - Select one correct answer from the options list.

- spring-beans
- spring-core
- spring-context
- spring-web



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```
<c:url var="myAction" value="checkLogin.obj" />
<form:form method="post" modelAttribute="user" action="${myAction}">
    Enter Name:<form:input path="userName"/><br/>
    Enter Password:<form:password path="password"/><br/>
    <input type="submit" value="Login"/>
</form:form>
</body>
</html>
```

In order to hold values entered in the above components what needs to be done?

*Single Choice - Select one correct answer from the options list.*

- Controller should have a mapped method with following arguments: (@ModelAttribute("user")@Valid User user, BindingResult result, Model model) Where "User" class has data members "userName" and "password" with getter setter methods for accessing them.
- Controller should have a mapped method with following code: model.addAttribute("user",logindetails); where "model" is object of Model and logindetails is Object of type User
- Controller should have a mapped method with following code: model.addAttribute("logindetails",user); where "model" is object of Model and user is Object of type User
- Compilation error in JSP as there is no "path" attribute for "input" and "password"

Section: 1

**Q12**

Consider JSP with following code snippet:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<body>
<h1>Login PAGE</h1>
<c:url var="myAction" value="checkLogin.obj" />
<form:form method="post" modelAttribute="user" action="${myAction}">
    Enter Name:<form:input path="userName"/><br/>
    Enter Password:<form:password path="password"/><br/>
    <input type="submit" value="Login"/>
</form:form>
</body>
</html>
```

In order to hold values entered in the above components what needs to be done?

*Single Choice - Select one correct answer from the options list.*

- Controller should have a mapped method with following arguments: (@ModelAttribute("user")@Valid User user, BindingResult result, Model model) Where "User" class has data members "userName" and "password" with getter setter methods for accessing them.
- Controller should have a mapped method with following code: model.addAttribute("user",logindetails); where "model" is object of Model and logindetails is Object of type User
- Controller should have a mapped method with following code: model.addAttribute("logindetails",user); where "model" is object of Model and user is Object of type User

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Section: 1

**Q11**

"@RequestMapping" annotation can be used at \_\_\_\_\_ level.

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*



variable



static variable



method



class

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**Q10**

Which of the following return boolean indicating whether the entity of this type with the given key exists or not?

*Single Choice - Select one correct answer from the options list.*



count()



exists(ID)



findAll()



findAll

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Section: 1

**Q9**

Examine the below code:

```
@Controller  
@RequestMapping("/bookinventory")  
public class BookController {  
    @RequestMapping(value = "/save", method = RequestMethod.POST)  
    public ModelAndView saveBook(@ModelAttribute("book") Book b  
        BindingResult result) {}}
```

Which URL request will invoke the saveBook method in the above controller? Consider the application name is BookMaintenance.  
*Single Choice - Select one correct answer from the options list.*

- http://localhost:8080/BookMaintenance/save.obj
- http://localhost:8080/BookMaintenance/bookinventory.obj
- http://localhost:8080/BookMaintenance/bookinventory/save.obj
- http://localhost:8080/BookMaintenance/bookinventory obj?operation=save

Section: 1

**Q8** Which of the following is the correct way of enabling auto scanning of application repositories in spring configuration?

Single Choice - Select one correct answer from the options list.

- <jpa:repositories base-package="com.cg.dao" entity-manager-factory-ref="entityManagerFactory" transaction-manager="transactionManager"/>
- <jpa:repositories base-package="com.cg.dao" entity-manager="entityManagerFactory" transaction-manager-ref="transactionManager"/>
- <jpa:repository base-package="com.cg.dao" entity-manager-factory-ref="entityManagerFactory" transaction-manager-ref="transactionManager"/>
- <jpa:repositories base-package="com.cg.dao" entity-manager-factory-ref="entityManagerFactory" transaction-manager-ref="transactionManager"/>

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**Q7**

Which of the following does not come under Spring Project?

*Single Choice - Select one correct answer from the options list.*

- Spring HATEOS
- Spring DATA
- Spring CLOUD
- SPRING QUEUE

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**Q6**

Which of the following are true regarding "Bean" in spring framework?

*Single Choice - Select one correct answer from the options list.*



It is necessary that "Bean" class must implement at least one interface



"Bean" class must extend BeanSupport



It is not necessary for "Bean" class to implement or extend anything



A and B both are correct

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Section: 1

**Q5**

Which of the following filter will display the date in the following format

&lt;!-- Displays: Jul 30, 2014 5:13:19 PM --&gt;

Single Choice - Select one correct answer from the options list.



{{today | date:'medium'}}



{{today | date:'longDate'}}



{{today | date:'shortDate'}}



{{today | date:'d-M-y'}}

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Section:

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Q4

Whether input is adhering to the validations specified in Spring is checked using \_\_\_\_\_ class.

Single Choice - Select one correct answer from the options list



Valid



BindingResult



Validatable



ValidationAware

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Section: 1**Q3**

Which of the following is pre-existing bean factory post-processors?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

- CustomAutowireConfigurer
- AutowireConfigurer
- PropertyPlaceHolderConfigurer
- InternationalizationConfigurer

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**Q2**

What will be the output?

{{ 'Capgemini India Limited' | limitTo:-7}}

*Single Choice - Select one correct answer from the options list.*

- Capgemini
- India
- Limited
- Entire String

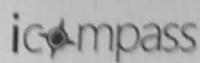
Section: 1**Q1**

In Spring AOP, details about method under execution(business method) like method name, parameters, signature etc. can be retrieved in \_\_\_\_\_ advice  
Single Choice - Select one correct answer from the options list.

- before
- after
- around
- Both A and B are correct
- All are correct

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**Q40** Select the list of clients a RESTful web service can support  
*Single Choice - Select one correct answer from the options list*

- Java Web client
- .NET client
- standalone Java application
- None of the above