-------------------------------------------Spring 1-----------------------------------------

Q. <bean id="datasource" class="com.spring.ConnectionDataSource">

<property name="url"><value>${url}</value></property>

<property name="driver"><value>${driver}</value></property>

<property name="username"><value>${username}</value></property>

<property name="password"><value>${password}</value></property>

</bean>

<bean id="placeHolderConfig"

class="org.springframework.beans.factory.config.PropertyPlaceholderConfigurer">

<property name="\_\_\_\_\_\_\_"><value>\_\_\_\_\_\_\_\_\_</value></property>

</bean>

What must go into the blanks?

1). '1-base 2-properties

2). 1-location 2-properties file name

3). '1-resource 2-properties file name

4). 1-location 2-property

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. Which implementation of 'Application Context' loads context definition from an XML file contained within a web application

1). ClassPathXmlApplicationContext

2). FileSystemXmlApplicationContext

3). XmlWebApplicationContext

4). none of the above

Solution :

option [3] is correct

Attempted :

option [1] is attempted

Q. Look at the bean below.

public class ExampleBean {

private int years;

private String ultimateAnswer;

public ExampleBean(int years, String ultimateAnswer) {

this.years = years;

this.ultimateAnswer = ultimateAnswer;

}

}

What would be the value of index, to instantiate the bean using constructor injection?

<bean id="exampleBean" class="examples.ExampleBean">

<constructor-arg index="\_\_\_\_\_"><value>7500000</value></constructor-arg>

<constructor-arg index="\_\_\_\_\_"><value>42</value></constructor-arg>

</bean>

1). '0 and 1

2). '1 and 2

3). Start-index value does not matter

4). There is no attribute called index with the <constructor-arg> element

Solution :

option [1] is correct

Attempted :

option [3] is attempted

Q. Which of the given option represents loose coupling?

1). public class Person

{

private Address address;

public Person()

{

this.address = new Address();

}

}

2). public class Person

{

private Address address;

public Person(Address address)

{

this.address = address;

}

}

3). Both 0 and 1

4). none of the above

Solution :

option [2] is correct

Attempted :

option [4] is attempted

Q. <bean id="currencyConverter" class="training.Spring.CurrencyConverterImpl">

<property name="exchangeRate" value="44.50" /></bean>

Which type of dependency injection is used in above code?

1). Setter Injection

2). Constructor Injection

3). Interface Injection

4). No dependency injection is used

Solution :

option [1] is correct

Attempted :

option [3] is attempted

Q. Which of the given statement is true about spring boot?

1). Dynamically wires up beans

2). No requirement of XML configuration

3). Increases the size of build file

4). Increases the boiler plate code

Solution :

option [1,2] are correct

Attempted :

option [1,2,4] are attempted

Q. Which of the given below are the layers of Spring IO platform?

1). byName

2). byType

3). byId

4). autodetect

Solution :

option [3] is correct

Attempted :

option [2] is attempted

Q. Which element in the spring configuration file is used to tell the Spring container about a class and how it should be configured.

1). <bean>

2). <id>

3). <class>

4). <beans>

Solution :

option [1] is correct

Attempted :

option [4] is attempted

Q. Which of the given below are the layers of Spring IO platform?

1). Execution

2). Foundation

3). Co-ordination

4). All of the above

Solution :

option [4] is correct

Attempted :

option [4] is attempted

Q. Which of the given options are implementation of BeanFactory?

1). XMLBeanFactory

2). DefaultListableBeanFactory

3). JNDIBeanFactory

4). StaticBeanFactory

Solution :

option [1,2] are correct

Attempted :

option [1,2,4] are attempted

----------------------------------------Spring 2---------------------------------------------------------------

Q. Which of the given annotation is used to execute spring boot application?

1). @Configuraton

2). @EnableAutoConfiguration

3). @Resource

4). @Bean

Solution :

option [2] is correct

Attempted :

option [1] is attempted

Q. SpEL's \_\_\_\_\_\_\_\_\_\_ operator gives access to static methods and constants on a given class

1). #{}

2). T()

3). Type

4). Ternary

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. The projection operator in SpEL is:

1). .?[]

2). .![]

3). #{}

4). .#[]

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. Given the code snippet below, which of the following statements are true?

@PersistenceContext

private EntityManager entityManager;

public void registerUser() {

User usr = new User(); // Line 1

usr.setName(“John”); // Line 2

entityManager.persist(usr); // Line 3

}

Please choose all the answers that apply:

1). At line 1 the user instance is a managed Entity

2). At line 1 the user instance is a new Entity

3). At line 1 a new record will be inserted in the user table

4). At line 2 the entityManager will immediately reflect user name change to the database

5). At line 3 the entityManager will immediately reflect user name change to the database

Solution :

option [2,5] are correct

Attempted :

option [2,4] are attempted

Q. Which of the given class is configured for internationalization?

1). CustomEditorConfigurer

2). PropertyPlaceHolderConfigurer

3). ResourceBundleMessageSource

4). AspectJWeaving

Solution :

option [3] is correct

Attempted :

option [2] is attempted

Q. <util:list id="cities">

<bean class=“trg.spring.City"

p:name="Chicago" p:state="IL" p:population="2853114"/>

<bean class=" trg.spring.City"

p:name="Atlanta" p:state="GA" p:population="537958"/>

<bean class=" trg.spring.City"

p:name="Dallas" p:state="TX" p:population="1279910"/>

……

</util:list>

Which of the given statement is true about above code?

1). It will create a bean of type java.util.List that contains all of the values or beans that it contains.

2). util:list need to be replaced by list

3). p is the namespace used to set properties of beans

4). All of the above

Solution :

option [1,3] are correct

Attempted :

option [4] is attempted

Q. Which of the given options are implementation of DataSource?

1). BasicDataSource

2). ConnectionDataSource

3). DriverManagerDataSource

4). PoolingDataSource

Solution :

option [1,3,4] are correct

Attempted :

option [3] is attempted

Q. Which of the given syntax is correct to get a unique instance of a bean each time it is asked for?

1). <bean id=“foo” class=“com.igate.Foo” scope=“prototype” />

2). <bean id=“foo” class=“com.igate.Foo” scope=“singleton” />

3). <bean id=“foo” class=“com.igate.Foo” scope=“request” />

4). <bean id=“foo” class=“com.igate.Foo” scope=“session” />

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. How many ways you can configure EntityManagerFactory in Spring?

1). LocalEntityManagerFactoryBean

2). EntityManagerFactory lookup over JNDI

3). LocalContainerEntityManagerFactoryBean

4). All of the above

Solution :

option [4] is correct

Attempted :

option [4] is attempted

Q. Consider the following SpEL expression:

<property name=“smallCities" value="#{cities.?[population lt 100000]}"/>

Which of the folloing statements are correct about this code?(Assume that cities is a list that exists)

1). This example uses a projection operator

2). This example uses a selection operator

3). It retrieves list of cities whose population is less than 100,000

4). The "smallCities" property will be wired with list of cities objects

Solution :

option [2,3,4] are correct

Attempted :

option [1,3] are attempted

----------------------------------------------------Spring 3-------------------------------------------------------------

Q. To use repository from Sping Data, create an interface to extend following interface

1). org.springframework.data.repository.Repository(T,ID extends Serializable>

2). org.springframework.data.repository.Repository(ID extends Serializable,T>

3). org.springframework.data.repository.Repository(<T >)

4). 4) none of the above.

Solution :

option [1] is correct

Attempted :

option [3] is attempted

Q. Given the code snippet below, which of the following statements are true?

@PersistenceContext

private EntityManager entityManager;

public void updateUserProfile(Long usrId) {

User usr = entityManager.find(User.class,usrId); // Line 1

usr.setName(“john”); // Line 2

entityManager.merge(usr); // Line 3

entityManager.persist(usr); // Line 4

}

1). At line 1 the user instance is a managed Entity (t)

2). At line 1 the user instance is a detached Entity

3). At line 1 the find method will return null if the input userID is not found (t)

4). line 3 is mandatory to synchronize the changes done at line 2 to the database

5). ) line 4 is mandatory to synchronize the changes done at line 2 to the database

Solution :

option [2,5] are correct

Attempted :

option [1,3,5] are attempted

Q. Spring provides a class \_\_\_\_\_\_\_\_\_\_\_\_\_ to

work with JPA specific transactions.

1). org.springframework.transaction.PlatformTransactionManager

2). org.springframework.orm.jpa.JpaTransactionManager

3). all of the above

4). none of the above

Solution :

option [2] is correct

Attempted :

option [2] is attempted

Q. Classes annotated with \_\_\_\_\_\_\_\_\_\_ are identified as persistent classes by the annotatedClasses property of the AnnotationSessionFactoryBean.

1). @Persist

2). @Mapping

3). @Repository

4). @Entity

Solution :

option [4] is correct

Attempted :

option [3] is attempted

Q. Classes annotated with the following annotations are scanned by Spring's <context:component-scan>.

1. @Controller

2. @BeanComponent

3. @Service

4. @Component

5. @Repository

6. @Database

1). 1,2,4

2). 1,4

3). 1,4,5

4). 1,3,4,5

5). 1,4,5,6

Solution :

option [4] is correct

Attempted :

option [4] is attempted

Q. Which DataSource matches the following description ?

"You want to acquire the connection only once and hold on to it.

You should call the destroy() method when you are done with database processing."

1). AbstractDataSource

2). SingleConnectionDataSource

3). BasicDataSource

4). DriverManagerDataSource

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. <bean id="sessionFactory"

class="\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_">

<property name="dataSource" ref="dataSource" />

<property name="annotatedClasses" value="com.capgemini.entity" />

<property name="hibernateProperties">

<props>

<prop key="dialect"> org.hibernate.dialect.Oracle9Dialect </prop>

</props>

</property>

</bean>

Assuming that the fully qualified class name is give, which of the following class could go into the blank?

1). LocalSessionFactoryBean

2). RemoteSessionFactoryBean

3). SessionFactoryBean

4). AnnotationSessionFactoryBean

Solution :

option [4] is correct

Attempted :

option [3] is attempted

Q. How many ways you can acquire DataSource?

1). DriverManagerDataSource

2). JNDI Look upManagerDataSource

3). all of the above

Solution :

option [1,2] are correct

Attempted :

option [3] is attempted

Q. Spring’s core transaction management abstraction is based on the interface?

1). PlatformTransaction

2). PlatformTransactionManager

3). TransactionManager

4). PlatformManager

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. Container-managed and application-managed entity managers are associated with an EntityManagerFactory instance.

1). TRUE

2). FALSE

Solution :

option [1] is correct

Attempted :

option [1] is attempted

-------------------------------------------------Spring 4=-----------------------------------------------------

Q. You want to write a JPA Entity class to model a databank table named COOPERATE\_USER. Each user is

uniquely identified in this table by his or her social security number SSN. Along with SSN the system keeps username, job, address and birth date.

How to declare such JPA Entity class?

Please choose all the answers that apply:

1). Write a CooperateUser public class

2). Annotate the CooperateUser class with @Table(name=” COOPERATE\_USER”)

3). Annotate the CooperateUser class with @Entity

4). The CooperateUser class must implement Serializable

5). Define private attributes ssn, job, name, addess and birthdate

Solution :

option [1,2,3,4] are correct

Attempted :

option [2,3,5] are attempted

Q. When Spring (MVC) is used in a web-aware way 3 additional scopes become available to bind beans to, these are?

1). request

2). singleton

3). session

4). prototype

5). global-session

Solution :

option [1,3,5] are correct

Attempted :

option [1,3,4] are attempted

Q. Where do you expect to find the servlet specific Spring config to the "example"

servlet in the web.xml below?

<servlet>

<servlet-name>example</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

<load-on-startup>1</load-on-startup>

</servlet>

1). /WEB-INF/example-servlet.xml

2). /WEB-INF/servlet-config.xml

3). /WEB-INF/default-config.xml

4). /WEB-INF/example-servlet-config.xml

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. @Controller is a specialization of the @Component annotation.

1). TRUE

2). FALSE

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. Which statements about DispatcherServlet are true?

1). It's a Model part of the MVC pattern implemented in Spring MVC.

2). It's a View part of the MVC pattern implemented in Spring MVC.

3). It's a Controller part of the MVC pattern implemented in Spring MVC.

4). It's an example of the Intercepting Filter pattern implementation.

Solution :

option [3] is correct

Attempted :

option [3] is attempted

Q. Given the code snippet below:

@Controller

public class MyClass {

public ModelAndView \_\_\_\_\_\_\_\_\_\_\_\_\_(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String now = new java.util.Date().toString();

return new ModelAndView("hello","now",now);

}

}

What should be the method name?

1). controlRequest

2). handle

3). only handleRequest

4). any user defined method

Solution :

option [4] is correct

Attempted :

option [2] is attempted

Q. JpaRepository is a child inteface of following?

1). CrudRepository<T,ID>,

2). PagingAndSortingRepository<T,ID>,

3). QueryByExampleExecutor<T>,

4). Repository<T,ID>

5). all of the above.

Solution :

option [4] is correct

Attempted :

option [1] is attempted

Q. Which of the following correctly describe the modules of the Spring architecture?

1). The Context module provides a Web-based framework for integrating Spring’s IoC and DI containers through the J2EE Servlet API

2). The Web module provide transaction management for data access business logic, utilizing AOP to inject transaction logic into domain functionality

3). The inversion of Control(IOC) and dependency Injection (DI) contains , as well as fundamental parts of the Spring framework, are provided by the core and Beans modules.

4). The transaction modules provides and AOP framework to utilize proxies to transparently inject any desired business logic into domain functionality.

5). . The Aspect-Oriented Programming(AOP) modules builds on the Core and Business modules to provide the ApplicationContext infrastructure, allowing access to object in a framework style

Solution :

option [2,3,4] are correct

Attempted :

option [1,3] are attempted

Q. The request has already reached the DispatcherServlet. Given the snippet from the xml file,

which component will handle the request next?

<beans>

<!-- basicspringController implements Controller -->

<bean id="basicspringController" class="training.web.spring.BasicSpringController" >

<!-- some properties -->

</bean>

<bean id="beanMapping" class="org.springframework.web.servlet.handler.BeanUrlHandlerMapping">

<!-- some properties -->

</bean>

<bean id="viewResolver" class="org.springframework.web.servlet.view.InternalResourceViewResolver">

<!-- some properties -->

</bean>

<bean id="messageSource" class="org.springframework.context.support.ResourceBundleMessageSource">

<!-- some properties -->

</bean>

</beans>

1). basicspringController

2). beanMapping

3). viewResolver

4). messageSource

Solution :

option [2] is correct

Attempted :

option [3] is attempted

Q. The DispatcherServlet is an implementation of what design pattern?

1). Controller

2). Template

3). Front Controller

4). Interceptor

Solution :

option [3] is correct

Attempted :

option [3] is attempted

**SPRING DAY5**

**Q.** In Spring MVC, the \_\_\_\_\_\_\_\_\_\_\_\_\_  tag can render field validation errors.

**1)**. <sf:fieldErrors>

**2)**. **<sf:errors>**

**3)**. **<sf:error>**

**4)**. <sf:errorMessages>

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**Q.** Look at a snippet from web.xml of a Spring MVC application:  
  
<web-app>  
     <servlet>  
          <servlet-name>tradingapp</servlet-name>  
          <servlet-class> org.springframework.web.servlet.DispatcherServlet </servlet-class>  
     </servlet>  
     <servlet-mapping>  
          <servlet-name>tradingapp</servlet-name>  
          <url-pattern>\*.htm</url-pattern>  
     </servlet-mapping>  
  
What should be the name of the Spring configuration file for this application?

**1)**. tradingapp.xml

**2)**. spring-config.xml

**3)**. **tradingapp-servlet.xml**

**4)**. Any name is ok

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** How will you bring in the configuration metadata into a Spring testcase?

**1)**. @TransactionConfiguration

**2)**. **@ContextConfiguration**

**3)**. @RunWith

**4)**. @ContextMetadata

**Solution** :  
option [2] is correct

**Attempted** :  
option [2] is attempted

**Q.** \_\_\_\_\_\_\_\_\_\_ manages a TestContext.

**1)**. ContextManager

**2)**. **TestContextManager**

**3)**. **TestExecutionListener**

**4)**. TestContextClass

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**Q.** Given the code snippet below, which of the following statements are true?  
          @PersistenceContext  
    private EntityManager entityManager;  
     public void registerUser() {  
     User usr = new User(); // Line 1  
     usr.setName(“John”); // Line 2  
     entityManager.persist(usr); // Line 3  
   }             
Please choose all the answers that apply:

**1)**. At line 1 the user instance is a managed Entity

**2)**. **At line 1 the user instance is a new Entity**

**3)**. At line 1 a new record will be inserted in the user table

**4)**. At line 2 the entityManager will immediately reflect user name change to

**5)**. **At line 3 the entityManager will immediately reflect user name change to**

**Solution** :  
option [2,5] are correct

**Attempted** :  
option [2,5] are attempted

**Q.** Spring's \_\_\_\_\_\_\_\_\_\_\_ sends out requests to controllers.

**1)**. ActionServlet

**2)**. ControllerServlet

**3)**. **DispatcherServlet**

**4)**. FilterDispatcher

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.**You want to write a JPA Entity class to model a databank table named COOPERATE\_USER. Each user is  uniquely identified in this table by his or her social security number SSN. Along with SSN the system keeps username, job, address and birth date.  
  
How to declare such JPA Entity class?  
  
Please choose all the answers that apply

**1)**. **Write a CooperateUser public class**

**2)**. **Annotate the CooperateUser class with @Table(name=” COOPERATE\_USER”)**

**3)**. **Annotate the CooperateUser class with @Entity**

**4)**. **Define private attributes ssn, job, name, addess and birthdate**

**5)**. **Annotate the ' name' attibute with @Id**

**6)**. **The CooperateUser class must implement Serializable**

**Solution** :  
option [1,2,3,6] are correct

**Attempted** :  
option [2,4,5] are attempted

**Q.** Consider the code snippet below for addUser.jsp in a MVC web-application:  
  
<%@ taglib prefix="sf" uri="http://www.springframework.org/tags/form"%>  
<h2>Create a User</h2>  
<sf:form method="GET" modelAttribute="user" action="ProcessUser.obj" >  
….  
<sf:input  \_\_\_\_\_\_\_\_\_="username" size="15" maxlength="15" />  
.....  
  
Most form elements from spring-form.tld have an attribute that is used to connect form   
input field with the corresponding field in the command object? Which is this element   
that must replace the blank?

**1)**. commandPath

**2)**. command

**3)**. **path**

**4)**. bind

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** The Controller Interface's handleRequest() method returns a?

**1)**. **ModelAndView object**

**2)**. JSP page

**3)**. View object

**4)**. Form object

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.**To figure out which controller should handle the request, DispatcherServlet queries \_\_\_\_\_\_\_\_\_\_\_ .

**1)**. **HandlerMappings**

**2)**. ModelAndView

**3)**. ViewResolver

**4)**. RequestHandler

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**HIBERNATE**

**Q.** Select the correct statement?

**1)**. **JPA need ORM implementation to work**

**2)**. **ORM framework that can use with JPA are TopLink,OpenJPA & Hibernate**

**3)**. JPA is database

**4)**. **All of Above**

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [4] is attempted

**Q.**In which of the Following persistence life cycle state the object is not yet associated with an Entity Manager

**1)**. Managed

**2)**. **New**

**3)**. **Detached**

**4)**. Removed

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**Q.** What is the use of EntityManagerFactory class?

**1)**. **Designed to create EntityManager.**

**2)**. Designed to create Persistance.

**3)**. **Responsible for creating EntityManager instance. It is obtained using Persistence class's createEntityManagerFactory static method.**

**4)**. Designed to create Entity.

**Solution** :  
option [1,3] are correct

**Attempted** :  
option [3] is attempted

**Q.** State whether below given statements are true or false:  
  
Statement 1-  The EntityManager is the primary interface used by application developers to interact with the JPA runtime.   
  
Statement 2 - EntityManagerFactory instance  manage entity objects which required to be persisted.

**1)**. True , True

**2)**. **True , False**

**3)**. **False , True**

**4)**. False , False

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**Q.** Choose the correct instance states of persistent class.

**1)**. Managed

**2)**. New

**3)**. Detached

**4)**. Removed

**5)**. **All of the above**

**Solution** :  
option [5] is correct

**Attempted** :  
option [5] is attempted

**Q.** What are the advantages of JPA? Select the correct options.

**1)**. Database independent.

**2)**. Concurrency support.

**3)**. Easy maintenance and increases productivity

**4)**. **All of Above**

**Solution** :  
option [4] is correct

**Attempted** :  
option [4] is attempted

**Q.** What is the use of "contains" EntityManager  method

**1)**. **Returns true if the entity instance is in the persistence context. This signifies that the entity instance is managed**

**2)**. Clears the entities from the persistence context

**3)**. Persists the entity object

**4)**. Detaches an entity from the persistence context

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** Select the correct statement for @Entity?

**1)**. **This Annotation marks the class as an entity bean**

**2)**. This Annotation marks the bean as primary key

**3)**. Used to create SEQUENCE column type

**4)**. All of Above

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** What is the use of  @Id@GeneratedValue(strategy = GenerationType.IDENTITY)

**1)**. JPA decides which generator type to use, based on the database’s support for primary key generation.

**2)**. **The database is responsible for determining and assigning the next primary key.**

**3)**. This type keeps a separate table with the primary key values.

**4)**. **All of Above**

**Solution** :  
option [2] is correct

**Attempted** :  
option [4] is attempted

**Q.** Which of the following are elements in persistence.xml

**1)**. **<persistence-unit>**

**2)**. **<class>**

**3)**. **<hibernate>**

**4)**. <opengl>

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [1,2,3] are attempted

**HIBERNATE 2**

**Q.** Which of the given syntax is correct to use Named Queries?

**1)**. **@Entity  
@Table(name = "books")  
@NamedQueries(  
@NamedQuery(name = "getAllBooks", query = "SELECT book FROM Book book"))  
public class Book implements Serializable {  ………….. }**

**2)**. @Entity  
@Table(name = "books")  
@NamedQueries(  
name = "getAllBooks", query = "SELECT book FROM Book book")  
public class Book implements Serializable {  ………….. }

**3)**. @Entity  
@Table(name = "books")  
@NamedQueries(  
@NamedQuery(name = "getAllBooks", query = "SELECT book FROM Book book"))  
public class Book {  ………….. }

**4)**. @Entity  
@Table(name = "books")  
@NamedQuery(  
@NamedQueries(name = "getAllBooks", query = "SELECT book FROM Book book"))  
public class Book implements Serializable {  ………….. }

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** What is true about the following code:  
  
@OneToMany(mappedBy="department")   
 public Collection<Employee> getEmployees() {   
 return employee;   
 }

**1)**. **Department has a field called “Employee”, that has a one-to-many relationship**

**2)**. **Each “department” has one or more “Employee”**

**3)**. Each “Employee” has one or more “department”

**4)**. None of these

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [1,2] are attempted

**Q.** How can we represent the Many to Many Entity relationship in JPA?

**1)**. **javax.persistence.ManyToMany**

**2)**. javax.persistence.Entity

**3)**. javax.persistence.Table

**4)**. javax.hibernate.ManyToMany

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.**Which of the below given strategies JAP allows for hierarchical classes to be mapped with tables?

**1)**. InheritanceType.SINGLE\_TABLE

**2)**. InheritanceType.  
TABLE\_PER\_CLASS

**3)**. InheritanceType.JOINED

**4)**. **All of the above**

**Solution** :  
option [4] is correct

**Attempted** :  
option [4] is attempted

**Q.**\_\_\_\_\_\_\_\_\_\_\_\_   interface shoule be used when the query result type is unknown or when a query returns polymorphic results .

**1)**. **TypedQuery**

**2)**. **Query**

**3)**. EntityManager

**4)**. Non of the above

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

**Q.**Which of the following entitymanager method is used to locate single entity only based on primary key value .

**1)**. search()

**2)**. locate()

**3)**. flush()

**4)**. **find()**

**Solution** :  
option [4] is correct

**Attempted** :  
option [4] is attempted

**Q.** Which of the given below are valid cascade types?

**1)**. **Detach**

**2)**. **Merge**

**3)**. **Insert**

**4)**. **Remove**

**5)**. **All**

**Solution** :  
option [1,2,4,5] are correct

**Attempted** :  
option [2,3,4] are attempted

**Q.**Query interface shoule be used in which of the following case as per JPA 2 recommendations?

**1)**. When specific query result type is expected

**2)**. **When query result type is unknown**

**3)**. **When query result contains more than one object**

**4)**. When query result contains only one object

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**Q.** @Entity  
public class Employee ….. {  
 @Id  
 private int empId;  
 private String name;  
 @OneToOne  
 private Address address;  
}  
  
@Entity  
public class Address ….. {  
 @Id  
 private int addressId;  
 private String street;  
 private String city;  
 private String state;  
 private String zipcode;}  
Which of the given statement is true about above code?

**1)**. **It represents unidirectional one-to-one relationship**

**2)**. It represents bidirectional one-to-one relationship

**3)**. **It represents bidirectional one-to-many relationship**

**4)**. None of these

**Solution** :  
option [1] is correct

**Attempted** :  
option [3] is attempted

**Q.** State whether below given statements are true or false:   
Statement 1-            JPQL is a platform-independent object-oriented query language defined as part of the Java Persistence API (JPA) specification.  
  
Statement 2 - JPQL works with relational database Table not java classes .

**1)**. **True    True**

**2)**. **True    False**

**3)**. False   True

**4)**. False    False

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted