**Module 2 MTT**

**-----------------------------------------------------------­­­­­­­­-------------------------------------**

**Q.** @WebServlet("/my-address")  
public class MyServlet extends HttpServlet { ... }  
  
Choose the correct URL?

**1)**. **http://hostname/Context -name/my-address**

**2)**. http://hostname/my-address

**3)**. http://Context- name/my-address

**4)**. http://hostname/Context- name

**Q.** Consider, following code snippet in a servlet- Servlet1:  
  
     HttpSession session=request.getSession(true);  
  
Another servlet Servlet 2 with following code snippet:  
  
     HttpSession session=request.getSession(false); out.print("Is it new session?" + session.isNew()) ;   
  
If you use "forward" from Servlet 1 to Servlet 2 then what will it result into?

**1)**. **Is it new session? True**

**2)**. **Is it new session? False**

**3)**. Compilation error as getSession can not have "false" as argument

**4)**. none of the above

**Q.**Maven tries to satisfy the dependency by first looking in which of the following repository?

**1)**. **Local repository**

**2)**. Remote Repository

**3)**. Default central maven repository

**4)**. Local server's repository.

**Q.** What is the correct way to set the "background-color" property of a div to black if a component   
variable "isBlack" is set to true or grey if the variable "isBlack" is set to false?

**1)**. **<div [style.background-color]="isBlack ? 'black' : 'gray' "> ...**

**2)**. <div [style]="background-color ? 'black' : 'grey' "> ...

**3)**. <div [style. isBlack] = "background-color ? 'black' : 'grey' "> ...

**4)**. **<div [background-color] = "isBlack ? 'black' : 'grey' "> ...**

**Q.** In Angular 2, what are the ways one can build forms?

**1)**. **template-driven**

**2)**. **model-driven**

**3)**. controller-driven

**4)**. **component-driven**

**Q.**const routes: Routes = [   {path: '', redirectTo: 'home', pathMatch: 'full'},   {path: 'find', redirectTo: 'search'},     
{path: 'home', component: HomeComponent},   {path: 'search', component: SearchComponent},     
{path: 'artist/:artistId', component: ArtistComponent}];    
  
if we have above route configuration, how to add a path of 'artist/:artistId' for ArtistComponent?

**1)**. **<a routerLink="artist/1001"> Artist </a>**

**2)**. **<a routerLink="artist:/1001"> Artist </a>**

**3)**. **<a [routerLink]="{artist: artist, artistId:1001}"> Artist </a>**

**4)**. **<a [routerLink]="['/artist',1001]">Artist</a>**

**Q.** Which of the following features related to TypeScript?

**1)**. **Strong Typing .**

**2)**. **Object Oriented features.**

**3)**. **Compile time catching error .**

**4)**. Run time catching error .

**Q.**Which line of code correctly uses the ngSwitchCase directive to display a paragraph in the DOM,   
if the template expression matches a string "hello" ?

**1)**. **<p \*ngSwitchCase="hello"> Show Me </p>**

**2)**. <p ngSwitchCase="hello"> Show Me </p>

**3)**. **<p \*ngSwitchCase=" 'hello' "> Show Me </p>**

**4)**. <p ngSwitchCase=" 'hello' "> Show Me </p>

**5)**. Qst is not clear

**Q.** HTTP service's get/put/post/delete function returns

**1)**. object of type "any"

**2)**. **Observable**

**3)**. Json data

**4)**. callback function

**Q.** What is the purpose of number type in input tag element?

**1)**. **It will allow user to enter only numbers**

**2)**. **It will provide an up and down button with textbox to increase and decrease value**

**3)**. It will allow user to print numbers

**4)**. It will allow to perform validation on numbers

**Q.** Which of the following statements are true for the following code?    
  
<xs:element name="product">  
<xs:complexType>  
<xs:simpleContent>  
    <xs:extension base="xs:integer">  
    <xs:attribute name="ProductId" type="xs:string"/>  
     </xs:extension>  
</xs:simpleContent>  
</ xs:complexType>  
</xs:element>

**1)**. The product element includes string type contents as well as attribute ProductId

**2)**. **This is specification for product element of complex type**

**3)**. This is specification for product empty element having attribute ProductId

**4)**. **The product element includes integer type contents as well as attribute ProductId**

**Q.** Check the incorrect statement/s about JavaScript.

**1)**. **It cannot read from HTML elements**

**2)**. It can be used to validate data

**3)**. **It cannot react to events**

**4)**. It is used for embedding programming constructs in designing language

**Q.**Which of the following should be followed by an XML document so that it is a well formed   
XML document?  
  
i. Every tag must be closed  
ii. Opening  tag need not match exactly with the closing tag  
iii. Parent tag should be closed before the child tag  
iv. All elements must be embedded within a single root element  
v. Multiple root elements can be present in an xml document

**1)**. i, iii, iv

**2)**. **i, iv**

**3)**. **i, v**

**4)**. i, iv, v

**Q.**An HTML5 page needs to collect the username, favorite color,time of birth and a number between   
10 to 100 in multiples of 5. The username cannot be left blank and the color should  display a color picker.   
Create an HTML 5 form for this requirement.

**1)**. <html>  
<body>  
<form>  
Username : <input name="user" type="text" required/>  
Your Lucky Number : <input name="range" type="range" min="10" max="100" value="5" />  
Time of birth: <input name="date" type="time" value=""/>  
Favorite Color : <input name="color" type="color" placeholder="e.g. #bbbbbb" />  
<input type="submit">  
</form>  
</body>  
</html>

**2)**. **<html>  
<body>  
<form>  
Username : <input name="user" type="text" required/>  
Your Lucky Number : <input name="number" type="number" step="5" min="10" max="100" value="10" />  
Time of birth: <input name="date" type="time" value=""/>  
Favorite Color : <input name="color" type="color" placeholder="e.g. #bbbbbb" />  
<input type="submit">  
</form>  
</body>  
</html>**

**3)**. <html>  
<body>  
<form>  
Username : <input name="user" type="text" value="required"/>  
Your Lucky Number : <input name="range" type="range" min="0" max="50" value="10" />  
Time of birth: <input name="date" type="time" value=""/>  
Favorite Color : <input name="color" type="color" placeholder="e.g. #bbbbbb" />  
<input type="submit">  
</form>  
</body>  
</html>

**4)**. <html>  
<body>  
<form>  
Username : <input name="user" type="text" required/>  
Your Lucky Number : <input name="range" type="range" min="0" max="50" value="10" />  
Time of birth: <input name="date" type="time" value=""/>  
Favorite Color : <input name="color" placeholder="e.g. #bbbbbb" />  
<input type="submit">  
</form>  
</body>  
</html>

**Q.** What is the output of the following JavaScript code?  
  
<html>  
<body>  
<script type="text/javascript">  
var arr = new Array(6);  
arr[0] = "Janet";  
arr[1] = "Hegde";  
arr[2] = "Stalin";  
arr[3] = "Kaira";  
arr[4] = "Boris";  
arr[5] = "Tom";  
document.write(arr + "<br />");  
document.write(arr.sort());  
</script>  
</body>  
</html>

**1)**. **Janet,Hegde,Stalin,Kaira,Boris,Tom  
Boris,Hegde,Janet,Kaira,Stalin,Tom**

**2)**. Janet Hegde Stalin Kaira Boris Tom  
Boris Hegde Janet Kaira Stalin Tom

**3)**. **Janet  
Hegde  
Stalin  
Kaira  
Boris  
Tom  
Boris,Hegde,Janet,Kaira,Stalin,Tom**

**4)**. Janet Hegde Stalin Kaira Boris Tom  
Janet Hegde Stalin Kaira Boris Tom

**Q.** input:focus {  
    background-color: yellow;  
}  
  
What will be selected through the above CSS selector?

**1)**. All the input tag elements

**2)**. **The input element which gets the focus**

**3)**. **The input element having "focus" attribute**

**4)**. The input element which has the classname "focus"

**Q.**Which of the following is used to create a class called header which has  width of 750px and   
height of 500px and color of text as blue?

**1)**. #header { height=500px;  
width=750px;  
color=blue;  
}

**2)**. :header{height:500px;  
width:750px;  
color:blue}

**3)**. #header{height:500px;  
width:750px;  
text-color:blue}

**4)**. **.header{height:500px;  
width:750px;  
color:blue}**

**Q.** Select the appropriate Jquery selector that selects all radio buttons:

**1)**. $(':input')

**2)**. $(':text')

**3)**. **$(':input[type="radio-check"]')**

**4)**. **$(':input[type="radio"]')**

**Q.** State whether given statements are True or False:  
  
1: jQuery is a client side scripting language  
2: By default jQuery object is not represented by '#' symbol.

**1)**. Both statements are false

**2)**. **Both statements are true**

**3)**. **Only Statement 1 is true**

**4)**. Only Statement 2 is true

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

**1)**. Persistence

**2)**. **EntityManagerFactory**

**3)**. **EntityManager**

**4)**. EntityTransaction

**Q.** Consider following JSP code snippet:  
  
<jsp:forward page="dest.jsp">  
 <jsp:param value="Bhavana"  name="user"/>  
</jsp:forward>   
  
How will you retrieve the value of user in dest.jsp?

**1)**. user value cannot be retrieved

**2)**. <%= request.getAttribute("user") %>

**3)**. <%= session.getParameter("user") %>

**4)**. **<%= request.getParameter("user") %>**

**Q.** What is true about following JSP code snippet?  
  
<% if (Math.random() < 0.5) { %>  
Have a <B>nice</B> day!  
<% } else { %>  
Have a <B>lousy</B> day!  
<% } %>

**1)**. Compilation error as interleaved scriptlet tags are not allowed

**2)**. Compilation error as we can not have more than 1 scriptlet tag in a JSP file

**3)**. **It will always go in else block as Math.random() will generate numbers between 1 to 100**

**4)**. **If random number is less than 0.5 then it will produce "Have a nice day!"   
Else it will produce "Have a lousy day!"**

**Q.** @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?

**1)**. **@GeneratedValue(strategy=GenerationType.AUTO)**

**2)**. @GeneratedValue(type=GenerationType.AUTO)

**3)**. @GeneratedValue(type=AUTO)

**4)**. @GeneratedValue(strategy=AUTO)

**Q.** In Spring, if Classes are annotated with @Repository then \_\_\_\_\_\_\_\_.

**1)**. we have to explicitly declare a Dao bean

**2)**. **we won't have to explicitly declare a Dao bean.**

**3)**. **we won't have to explicitly declare a EntityManagerFactory bean**

**4)**. we won't have to explicitly declare a Entities

**Q.** Which of the following is added in dispatcher-servlet.xml file to map logical view name with jsp pages?

**1)**. **<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">  
<property name="suffix" value="/"/>  
<property name="prefix" value=".jsp" />  
</bean>**

**2)**. <bean class="org.springframework.web.servlet.view.ResourceViewResolver">  
<property name="suffix" value="/"/>  
<property name="prefix" value=".jsp" />  
</bean>

**3)**. <bean class="org.springframework.web.servlet.view.InternalViewResolver">  
<property name="suffix" value="/"/>  
<property name="prefix" value=".jsp" />  
</bean>

**4)**. **<bean class="org.springframework.web.servlet.InternalResourceViewResolver">  
 <property name="prefix" value="/"/>  
 <property name="suffix" value=".jsp" />  
</bean>**

**Q.** Which of the following annotation is used to inject EntityManager instance in Spring JPA application?

**1)**. @PersistenceUnit

**2)**. @EntityManager

**3)**. **@PersistenceContext**

**4)**. None of the above

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

**1)**. spring-beans

**2)**. spring-core

**3)**. spring-context

**4)**. **spring-web**

**Q.** Which of the following is not an  AOP framework?

**1)**. AspectJ

**2)**. JBoss AOP

**3)**. Spring AOP

**4)**. **TomcatAOP**

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

**1)**. **Method**

**2)**. Constructor

**3)**. Interface

**4)**. **Both A and B are correct**

**5)**. All are correct

**Q.** ViewResolvers are configured in:

**1)**. <servlet-name>.xml

**2)**. **<servletname>-servlet.xml**

**3)**. controller-servlet.xml

**4)**. springmvc-config.xml

**Q.** Why Spring Boot is prefered ?  
  
A . To reduce / avoid boiler plate code  
B . To reduce size of build file  
C . We got embedded server  
D . To simplifes testing

**1)**. D is true .

**2)**. **A ,B and C are true .**

**3)**. **A , B, C and D are true.**

**4)**. A ,B and D are true.

**Q.** How does the InternalResourceViewResolver work?

**1)**. Resolves view beans from an xml file that is defined separately from the application context definition files.

**2)**. **Uses a resource bundle that maps logical view names to implementations of the view interface**

**3)**. Looks up implementation of the view interfaces as beans in the spring context   
assuming that the bean name is the logical view name.

**4)**. **Resolves logical view names into view objects that are rendered using template file resources.**

**Q.** State whether given statements are True or False:  
  
1: A Controller is a class which delegates responsibility of business logic to one or more service objects.  
2: Spring MVC allows you to use  only JSP as a view technology

**1)**. Both statements are true

**2)**. Both statements are false

**3)**. **Statement 1 is true and Statement 2 is false**

**4)**. **Statement 1 is false and Statement 2 is true**

**Q.** Consider the following controller class.  
  
@Controller  
public class CGController {  
   @RequestMapping("/welcome")  
    public ModelAndView handleRequest(HttpServletRequest request,  
                         HttpServletResponse response) throws ..... {  
           String today = new java.util.Date().toString();  
           return "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";  
      }}  
  
What code should be written at blank line so that this method will return a bean object?  
i.e. Date Object to some JSP page(welcome.jsp) for displaying purpose.

**1)**. **new ModelAndView("welcome", "today", today);**

**2)**. new ModelAndView( "today", today);

**3)**. new ModelAndView( "today", today,"welcome");

**4)**. new ModelAndView("welcome", tpday);

**Q.**Which of the following statement should be included in jpaContext.xml file to allow spring   
to manage transactions using annotations?

**1)**. <context:annotation-config />

**2)**. **<tx:annotation-driven/>**

**3)**. <mvc:annotation-driven />

**4)**. None of the above

**Q.** Which of the following statements are true?

**1)**. **Spring beans are by default "singleton"**

**2)**. **"prototype" beans are lazily initialized irrespective of whether ApplicationContext is used or   
XMLBeanFactory is used**

**3)**. **"prototype" beans are early initialized irrespective of whether ApplicationContext is used or   
XMLBeanFactory is used**

**4)**. "prototype" beans are early initialized when ApplicationContext is used and lazily initialized when   
XMLBeanFactory is used

**Q.** For Non web spring applications, bean can have \_\_\_\_\_\_\_\_\_ scope.

**1)**. **request**

**2)**. **session**

**3)**. global session

**4)**. **prototype**

**5)**. **singleton**

**Q.** We want to configure ContextLoaderListener in web.xml which tag segment is correct ?

**1)**. **<listener>  
<listener-class>  
org.springframework.web.context.ContextLoaderListener  
</listener-class>  
</listener>**

**2)**. **<listeners>  
<listener-class>  
org.springframework.web.context.ContextLoaderListener  
</listener-class>  
</listeners>**

**3)**. <listener-class>  
<listeners>  
org.springframework.web.context.ContextLoaderListener  
</listeners>  
</listener-class> 

**4)**. <listner-class>  
<listener>  
org.springframework.web.context.ContextLoaderListener  
</listener>  
</listner-class>

**Q.** Select correct answer about spring bean life cycle.

**1)**. The init() method declared in the init-method attribute of a bean is called before the  
afterPropertiesSet callback method of the InitializingBean interface

**2)**. **The method annoted with @PostConstruct is called after bean instantiation and before   
properties setting of the bean**

**3)**. The method @PreDestroy of a prototype bean is called when the bean is garbage collected

**4)**. **The method annotated with @PostConstruct is called before before the afterPropertiesSet  
callback method of the InitializingBean interface**

**Q.**Which of the following annotation is used on a method, Spring converts the return value   
and writes it to the http response automatically?

**1)**. **@ResponseBody**

**2)**. **@RequestMapping**

**3)**.   
'Controller

**4)**. None of these options