

1. What will happen for every request coming from client to a servlet?

- A. init() will always be called
- ☒ B. service() is always called
- C. destroy() is always called
- D. All of the above

☐ A ☒ B ☐ C ☐ D

Clear Answer

Mark For Review

2. In a servlet, which of the following method calls can retrieve the "email" value sent from the browser?

```
<form action="ReqProcessorServlet">  
  Email: <input type="text" name="email">  
  <input type="submit">  
</form>
```

- ☒ A. getParameter("email") of ServletRequest
- B. getField("email") of HttpServletRequest
- C. getFormValue("email") of HttpServletRequest
- D. getParameters("email") of HttpServlet

☐ A ☒ B ☐ C ☐ D

Clear Answer

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3. The _____ class of HTTP status code indicates an error in the client's request.

- A. 2xx
- B. 3xx
- ☒ C. 4xx
- D. 5xx

4. Given code in a Servlet:

```
public void doGet(HttpServletRequest req, HttpServletResponse res) {  
    res.setContentType("text/html");  
    PrintWriter out = _____  
    //rest of servlet code  
}
```

What is the correct code for the blanks?

- A. res.getWriter();
- B. res.setWriter();
- C. res.writer();
- D. req.getWriter();

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

5. Choose the correct annotation from the following to create a Servlet:

- A. @HttpServlet
- B. @Servlet
- C. @WebServlet
- D. @WebHttpServlet

☐ A ☐ B ☐ C ☐ D

Clear Answer

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6. <c:set var="city" value="\${param.city}" />

What does the above code in a JSP implement?

- A. Attribute 'city' is set with the value accepted as request parameter
- B. Variable 'city' is assigned the value of User bean's property
- C. Bean property address is set to 'city'
- D. Variable city is declared

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

7. Assume that we have a ErrorHandler.jsp. If exception occurs in any other page, it must be redirected to following error page.

```
<HTML>
<BODY>
<%@ page _____="true" %>
<h3>Error</h3>
<%= exception %>
</BODY>
</HTML>
```

Which of the following attribute defines this jsp page as an exception handling page?

- A. exceptionPage
- B. isErrorPage**
- C. isExceptionPage
- D. errorPage

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8. In JDBC, which method returns the number of rows affected by the query?

- A. executeQuery()
- B. executeUpdate()**
- C. execute()
- D. getResultSet()

☐ A ☒ B ☐ C ☐ D

9. Assume we have a stored procedure called raiseSalary(empId) that takes employee-id and internally raises employee salary by a defined percentage. What is the correct JDBC code to call this stored procedure?

- A. CallableStatement cstmt = conn.prepareCall("{call raiseSalary(?)}");**
- B. CallableStatement cstmt = conn.prepareCall("raiseSalary(?)");
- C. PreparedStatement cstmt = conn.prepareStatement("{call raiseSalary(?)}");
- D. Statement cstmt = conn.createStatement("{call raiseSalary(?)}");

10. Hibernate has a large number of configuration parameters. One way to set the parameters is to put them in an XML configuration file. What is the default name of this hibernate configuration file?

- A. hibernate.config.xml
- B. hibernate.cfg.xml
- C. hibernate.hbm.xml
- D. hib.config.xml

☐ A ☒ B ☐ C ☐ D

11. Consider the following Hibernate mapping configuration:

```
<property name="email" column="EMAIL" type="string" />
```

The "type" here is:

- A. Java data type
- B. SQL data type
- C. Built-in Hibernate mapping type
- D. Underlying dialect type

☐ A ☒ B ☐ C ☐ D

12. What is transient object in hibernate?

- A. An object instantiated using the new operator and not associated with a Hibernate Session.
- B. An object instantiated using the new operator and associated with a Hibernate Session.
- C. An object which cannot be persisted
- D. An object that has been persisted but whose session has been closed

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☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

13. In Spring MVC, the view resolver's job is to :

- A. Map URL patterns to Controller objects
- B. Return a ModelAndView object to the DispatcherServlet
- C. Take the logical view name returned in from the controller and map it to a physical view
- D. None of the above

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14. Look at the Spring bean below.

```
public class ExampleBean {  
    private int count;  
    private String message;  
  
    public ExampleBean(int count, String message) {  
        this.count = count;  
        this.message = message;  
    }  
}
```

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

```
<bean id="exampleBean" class="ExampleBean">  
    <constructor-arg index="____"><value>100</value></constructor-arg>  
    <constructor-arg index="____"><value>Hello</value></constructor-arg>  
</bean>
```

A. 0 and 1

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15. In Spring AOP, _____ is responsible for choosing whether to proceed to the join point or to shortcut the advised method execution by returning its own return value or throwing an exception.

- A. MethodInterceptor
- B. MethodBeforeAdvice
- C. ThrowsAdvice
- D. MethodAroundAdvice

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

16. For building RESTful Web Services in Spring Boot, what is the required dependency?

- A. spring-boot-starter-web
- B. spring-boot-starter-webmvc
- C. spring-boot-starter-rest
- D. spring-boot-html

17. Consider a Spring Boot application.properties file entry:

user.username=anita

Also consider a Spring component - User.java:

@Component

public class User {

String username;

//getter/setter methods

}

What is the correct way to inject the user.username property into the Spring component?

- A. @Inject("\${user.username}")
- B. @Value("user.username")
- C. @Value("\${user.username}")
- D. @Property("\${user.username}")

☐ A ☐ B ☐ C ☐ D

Clear Answer

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18. Which of the following code will import java.util.Date and java.io.FileInputStream?

- A. `<%@page import="java.util.Date" import=" java.io.FileInputStream" %>`
- B. `<%@include import="java.util.Date" import=" java.io.FileInputStream" %>`
- C. `<%@ page import="java.util.Date, java.io.FileInputStream" %>`
- D. `<%@ include import="java.util.Date, java.io.FileInputStream" %>`

☐ A ☐ B ☐ C ☐ D

Clear Answer

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19. Following JSP code represents:

`<%! int data=50;%>`

- A. directive
- B. declarative
- C. scriptlet
- D. expression

☐ A ☐ B ☐ C ☐ D

Clear Answer

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☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

20. Which of the following method will retrieve value of selected checkboxes in servlet?

- A. `getParameter`
- B. `getParameterValues`
- C. `getMethod`
- D. `getParameterNames`

☐ A ☐ B ☐ C ☐ D

Clear Answer

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21. Consider the following code:

```
public class LoginServlet extends HttpServlet{
    public void doPost(HttpServletRequest request,HttpServletResponse
    response){
        HttpSession session = _____ //line 1
        // successful login will redirect to ProcessServlet
    }
}

public class ProcessServlet extends HttpServlet{
    public void doPost(HttpServletRequest request,HttpServletResponse
    response){
        HttpSession session = _____ //line 2
    }
}
```

Complete the code in line 1 and line 2

- A. 1. request.getSession(false)
- 2. request.getSession(true)



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22. We have following methods declared in our servlet:

```
public void service(HttpServletRequest request, HttpServletResponse
response)

{ System.out.println("Service Method"); }

public void doGet(HttpServletRequest request, HttpServletResponse response)
{ System.out.println("Get Method"); }

public void doPost(HttpServletRequest request, HttpServletResponse
response)
{ System.out.println("Post Method"); }
```

This servlet is invoked by an HTML in which we have specified method="POST"
What output will it show on the console?

- A. Service Method
- Get Method

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23. Which of the following are JDBC classes?

- A. DriverManager
- B. ResultSet
- C. Statement
- D. PreparedStatement

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

24. How can you execute a stored procedure in JDBC?

- A. Call method execute() on a CallableStatement object
- B. Call method executeProcedure() on a Statement object
- C. Call method execute() on a StoredProcedure object
- D. Call method run() on a ProcedureCommand object

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

25. Which of the following represents the correct syntax for using the include directive?

24. How can you execute a stored procedure in JDBC?

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- B. Call method executeProcedure() on a Statement object
- C. Call method execute() on a StoredProcedure object
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☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

25. Which of the following represents the correct syntax for using the include directive?

- A. <%@include page="header.jsp" %>
- B. <jsp: include page="header.jsp" />
- C. <jsp: include file="header.jsp" />
- D. <%@ include file="header.jsp" %>

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

26. After execution of the following code(committing transaction), object ss is in _____ state.

```
SessionFactory sess = new Configuration().configure().buildSessionFactory();
Session session = sess.openSession();
Transaction tr=session.beginTransaction();
Student ss = (Student)session.get(Student.class, new Integer(3));
System.out.println("Get Age from Database:"+ ss.getAge());
//evict the object
session.evict(ss);
//some more statements
tr.commit();
```

- A. Transient
- B. Detached**
- C. persistent
- D. deleted

27. Which of the following statements are false for the given code?

```
@Entity
@Table(name = "emp")
public class Employee {
    @Id @GeneratedValue
    @Column(name = "id")
    private int eid;
    private String ename;
}
```

- A. Employee objects data will be stored in Employee table**
- B. id column will be the primary key of the table
- C. The table contains 2 columns with name id and ename
- D. None of the above

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28. Below are the incomplete steps of request process flow in Spring MVC:

1. The client request is received by Front-Controller servlet.
2. Front-Controller servlet queries HandlerMapping to call appropriate Controller.
3. //Step 3

Choose the most appropriate Step 3 for above request flow:

- A. DispatcherServlet dispatches the request to the View object, which is responsible for rendering a response back to the client
- B. Requests are now processed by the Controller (classes annotated with @Controller) and response is returned as ModelAndView object to DispatcherServlet
- C. Request is processed by the viewResolver annotated with @Resolver to generate the response.
- D. Request is processed by the Controller and returns data (from Controller) using @Response annotation.

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

29. If following method is written in the Controller class of Spring MVC application, then which of the following code in Jsp view will display message 'Hello World!!' in browser window?

```
@RequestMapping("/")
public String welcome(ModelMap model) {
    model.addAttribute("message", "Hello World!!");
    return "/home";
}
```

- A. `<h1> <%= request.getParameter("message")%> </h1>`
- B. `<h1> <%= request.get ("message")%> </h1>`
- C. `<h1> ${message} </h1>`
- D. None of the above

30. Which of the following code will retrieve value of OwnerId, i.e owner11, if the ownerId is passed through url as shown below:
http://localhost:8080/MyApp/owners/owner11

- A. `@RequestMapping(value="/owners/{ownerId}", method=RequestMethod.GET)`
`public String findOwner(@PathVariable("ownerId") String owner, Model model) {`
`// implementation omitted`
`}`
- B. `@RequestMapping(value="/owners", method=RequestMethod.GET)`
`public String findOwner(@PathParam("ownerId") String owner, Model model) {`
`// implementation omitted`
`}`
- C. `@RequestMapping(value="/owners/{ownerId}", method=RequestMethod.GET)`
`public String findOwner(@RequestParam("ownerId") String owner, Model model)`
`{`
`// implementation omitted`
`}`
- D. `@RequestMapping(value="/owners/{ownerId}", method=RequestMethod.GET)`

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31. What is the job of view resolver in spring MVC application?

- A. Map URL patterns to Controller objects
- B. Return a ModelAndView object to the DispatcherServlet
- C. Take the logical view name returned in the ModelAndView object and map it to a physical view
- D. Map URL patterns and create ModelAndView object

32. Complete the following code.

```
package demo;  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
@SpringBootApplication  
public class Main {  
    public static void main(String[] args) {  
        _____ = SpringApplication.run(Main.class, args); //code goes here  
    }  
}
```

- A. SpringApp ctx;
- B. BeanContainer ctx
- C. ApplicationContext ctx
- D. None of the above

☐ A ☐ B ☒ C ☐ D

Clear Answer

Mark For Review

33. Which of the following method will retrieve all users with status "active" using JpaRepository?

- A. `@Query("SELECT u FROM User u WHERE u.status = 'active'", nativeQuery = true)`
`Collection<User> findAllActiveUsers();`
- B. `@Query("SELECT u FROM User u WHERE u.status = 'active'")`
`Collection<User> findAllActiveUsers();`
- C. `Collection<User> findAllActiveUsers();`
- D. All of the above

Mark For Review

34. Complete the following aspect implementation for an around advice (missing lines --Line 4 and Line 7)
Identify the correct Line of code to be inserted at the respective lines.

```
@Aspect
public class BusinessAspect
{
    _____ // Line 4
    public void businessMethods() { } // Line 5
    _____ // Line 7
    public Object profile(ProceedingJoinPoint joinpoint) throws Throwable // Line 8
    {
        long start = System.currentTimeMillis();
        Object output = joinpoint.proceed();
        long elapsedTime = System.currentTimeMillis() - start

        System.out.println("Method execution time: " + elapsedTime + " milliseconds.");
        return output;
    }
}
```

- A. `@Pointcut("expression(* com.demo.dao.*(..))")` //Line 4
`@Around("businessMethods()")` // Line 7
- B. `@Around("businessMethods()")` // Line 4

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35. Postman tool is used for:

- A. For generating headers and JWT token.
- B. Writing Web application using RestTemplate
- C. Writing web application using RestManager
- D. To test RESTful web service API by sending GET,PUT,POST and GET requests

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

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36. The method annotated with _____ annotation will get executed before every testcase in spring framework Testing using JUnit .

- A. @Start
- B. @Before
- C. @Configure
- D. @BeforeTest

☐ A ☒ B ☐ C ☐ D Clear Answer Mark For Review

37. Which of the following allows to monitor and manage Spring boot applications when running in production?

- A. spring-boot-devtools
- B. spring-boot-starter-actuator
- C. spring-boot-starter-hateoas
- D. spring-boot-starter-test

38. Which of the following is false about @RestController in Spring?

- A. It is applied to a class
- B. It is used to create RESTful webservice
- C. It combines @Controller and @ResponseBody
- D. It combines @Controller and @RequestBody

☐ A ☐ B ☐ C ☐ D Clear Answer Mark For Review

39. Which of the following method is used to send request, so the RESTful web service will modify portion of the object?

- A. PATCH
- B. POST
- C. GET
- D. PUT

☐ A ☒ B ☐ C ☐ D Clear Answer Mark For Review

40. When developing the servlet to handle file upload capabilities, which of the following code snippets would you use to determine if there is uploaded data to process?

- A. Collection<Part> parts = request.getParts(); If (parts.isEmpty()){...
- B. Collection<Part> parts = request.getParts(); If (parts.isNull()){...
- C. Collection<Part> parts = response.getParts(); If (parts.isEmpty()){...
- D. String parts = request.getParts(); If (parts.isEmpty()){...