1. Which of the following is the correct method to enable the response to process html code and display the output in the browser?
   a. Allow HTML
   b. Set HTML
   c. **Set Content Type**
   d. Get Content Type
2. Identify the methods of ServletContextListener?
   a. ContextInit, ContextService, Contextdestroyed.
   b. **ContextIntitialized, Contextdestroyed**
   c. ContextService, Contextdestroyed
   d. ContextInitialized, ContextService, Contextdestroyed
3. Select the correct options from the following.
   [Select 2 options]
   a. **The default value of its ThreadSafe attribute of page directive is true.**
   b. If is ThreadSafe attribute of page directive is set to true, then JSP container dispatches request for the page sequentially.
   c. **When is ThreadSafe attribute of page directive is set to true, a thread is created for each request for this page.**
   d. Setting isThreadSafe attribute to true for JSP Pages, can lead to poor performance.
4. What gets printed when the following is compiled?
   <% int y = 0; %>
   <% int z = 0; %>
   <% for (int i=0; x<3; i++) {%>
   <% z++; ++y; z+=--z + y++; %>
   <% } %>
   <% if(z<y) {%>
   <%= z%>
   <%} else {%>
   <%= z - 1%>
   <% }%>
   a. 0
   b. 21
   c. 3
   d. -1

    e. **Infinite loop**

5. <html>

   <body>

   </body>

   <p id="idi">Paragraph</p>

   </html>

   a. Red, red and blue respectively

   b. **Red, black and blue respectively**

   c. Red, black and black respectively

   d. Red, blue and blue respectively

6. Identify which of the following Pseudo classes can be applied to hyperlinks.

   a. Cue

   b. Clicked

   c. **Hover**

   d. **Visited**

   e. **Focus**

7. Which of the following statements Angular component consists of?

   a. **A component class that handles data and functionality.**

   b. **An HTML template that determines the UI.**

   c. **Component-specific styles that define the look and feel.**

   d. Angular Routing module

8. Which of the following are the features of HttpClient service?

   a. **The ability to request typed response objects.**

   b. **Streamlined error handling.**

   c. **Request and response interception.**

   d. Non-Testability

9. What will be the output of the following code snippet?

   < page language="java"

   <html>

   <head></head>

   <body>

   <java.util.Date now-new java.util.Date();

   $><H1>

   <= now.getHours() >:<=now.getMinutes()>:<=now.getSeconds()

   %></I></body></html>>

a. It will display the date as mm:dd:yy

b. It will display the date and time

c. It will display time as hh/mm/ss

d. It will display the current time as hh:mm:ss

10. In the below code snippet, what is the correct statement to be placed at line number 6 to display the coursehlame?

Line 1: import (Component) from '@angular/core':

Line 2: Component ({

Line 3:

Line 4: template:

Line 5: <h1>>

Line 6:

Line 7:</h1>

Line 8:

Line 9:

Line 10: export class AppComponent

Line 11:1

Line 12: courseName: string "Angular":

Line 13:) selector: 'my-app',

a. {{ courseName }}

b. this.courseName

c. courseName

d. AppComponent.courseName

11. Given the below code

@Component("user")

Public class User {

@value("100")

Private int id;//

@value("John")

@value("#{'John'.toUpperCase()}"}

Private String firstName;

@Value("Doe")

Private String lastName;

@Value ("# {user.firstName.concat(' ').concat(user,lastName)}")

private string fullName;

@Value ("# {hobbies['1']}")

Private String hobby;

@Value ("#{400 > 300 || 150 < 100}")

Private Boolean flag;//Getter Setter methods}

Config.xml:<util;list list-class="java.util.ArrayList" id="hobbies">

<value>Singing</value>

<value>Dancing</value>

<value>Reading</value>

</util:list>

What will be the output of there fields when printed?

OPTIONS:

  a. id=100, fullName= JOHN DOE, hobby= Dancing, flag=false

  b. id=100, fullName= JOHN DOE, hobby= Singing, flag= true

  c. **id=100, fullName= JOHN DOE, hobby= Dancing, flag=true**

  d. id=100, fullName= JOHN DOE, hobby= Singing, flag=false

12. Refer the following code for a java class?

Package com.mphasis;

Import javax.persistence.Entity;

Import javax.persistence.GeneratedValue;

Import javax.persistence.GeneratyedType;

Import javax.persistence.Id;//code goes here

Public class Customer {//code goes here

Private String firstName;

Private String lastName;//Setters and getters }

Which of the following lines of code when added to Lines 6, 8, and 9 will enable mapping of the java class with the database by JPA during generation of records? OPTIONS:

  a. @Table

    @Id

    @GeneratedValue (strategy=GenerationType.AUTO)

  b. **@Entity**

    @Id

    @GeneratedValue (strategy=GenerationType.AUTO)

  c. @Table

    @Identity

@GeneratedValue (strategy=GenerationType.AUTO)

d. @Table

@Id

@AutoGenerated (strategy=GenerationType.AUTO)

13. Given the below code (Assume necessary impots are include).

@RestController

@RequestMapping("/employee")

Public class EmployeeController {

@PostMapping("/create")

Public EmployeeDTO addEmployee(@RequestBody EmployeeDTO

employeeDTO) {//code to add employee and return the same back }}

Chose the correct statement. OPTIONS:

a. @PostMapping is not supported when the controller class is annotated with @RequestMapping.

b. @PostMapping is not allowed to hold path matching info ("/create")

c. Compilation Error

d. **This controller is perfectly fine and will work as expected.**

14. which access modifier is used when u do not inherit the class by other and which keyword is used to create interface---

a. Private, class

b. **final, interface**

c. protected, abstract

d. public, enum

15. Which of the following decorator specifies that Angular can use this class in the DI system?

a. **@Injectable ()**

b. @Component ()

c. @ Service ()

d. @Inject ()

16. Given the below code:

Class UseStatic {

 static int a = 3;

 static int b;

 static void meth (int x) {

  System.out.println ("x = "+ x);

```
System.out.println("a = "+ a);
System.out.println("b = "+b);
}
Static {
b = a * 4;
}
public static void main (String args []) {
meth (42);
}
}
```

What will be the output when the preceding program is compiled and executed?

a. **The program will display the output as:**

   static block initialized.

   x = 42

   a = 3

   b = 12

b. The program will generate compilation error

c. The program will display the output as:

   Static block initialized.

   x = 42

   a = 12

   b = 3

d. The program will throw a runtime exception.

17. Assume that the Employee class is mapped with an EMPLOYEE table. The entity class Employee is configured with the Identifier value. Assume that the EMPLOYEE table is empty, what will be the row(empid, empname) inserted into the EMPLOYEE table when the following code is executed?

Employes emp = new Employee();

emp.setEmpName("Alex");

session.getTransaction().begin();

session.persist(emp);

session.getTransaction().commit();

Options:

a. HibernateException is thrown as the increment generator is not able to fetch maximum value from EMPID
b. **1, Alex**
c. 0, Alex
d. NULL, Alex

18. Consider the following JSP page source:S

```
<%@ page import="java.io.*"%>
<html>
<body>
<%
PrintWriter out-response .getWriter();
out .write("X");
%>
<%out.write("Y");%>
</body>
</html>
```
Which of the following are true statements about the above cods?
a. "X" will be written to the response, followed by "Y".
b. Only "Y" will be written to the response.
c. **The page has a compilation error because of a directive syntax error.**
d. **In jsp technology it is a bad idea to get hold of the PrintWriter directly from the response.**
e. The page has a compilation error for other reasons.

19. Consider the following code:

```
<html>
<body>
<jsp:useBean id="address" class="AddressBean" scope="session" />
state = <jsp:getProperty name="address" property="state" /> </body>
</html>
```
Which of the following options are equivalent to the third line?
a. <% state = address.getState(); %>
b. **<% out.write("state = "); out.print(address.getState());%>**
c. <% out.write("state = "); out.print(address.getState());%>
d. **<% out.print("state = " + address.getState()); %>**
e. **state = <%= address.getState() %>**

20. What will be the output for the following cods?

    Page.html;

    <p>Building Web Applications</p>

    Page2.html;

    <p>Building Enterprise applications</p>

    Testservlet: protected void doGet(HTTPServletRequest request,

    HttpServletRespnse responsa) throws ServletException, IOException

    RequestDispatcher rd = request.getRequestDispatcher("Page.html");

    rd. Include (request, response);

    rd = request.getRequestDispatcher("Page2.html");

    rd. Include (request, response); }

    a. **Building Web Applications**

       Building Enterprise Applications

    b. Building Web Applications

    c. Building Enterprise Applications

    d. Servlet Exception

21. Identify the different values which a scope attribute of a

    <jsp:useBean>action can set

    a. **page, request, session and application**

    b. page and request only

    c. page, request, response and application

    d. page, response, session and application

22. Which of the following is true about AOP Advice?

    a. A point during the execution of a program.

    b. An aspect and a Pointcut.

    c. **An action taken by an aspect at a particular Join point.**

    d. A predicate that matches Join point.

23. To enable all actuator end points for monitoring, which of the following

    property should be enabled. Options

    a. **management endpoints web exposure include=***

    b. management endpoints web exposure.all=*

    c. management endpoints web exposure enable=*

    d. management endpoints enable exposure=*

24. Which command is used to create a new branch called "new-email"?
    a. git branch new "new-email"
    b. git add branch "new-email"
    c. **git branch new-email**
    d. git create branch "new-email"

25. Which statements regarding the PreparedStatement are true?
    a. **The performance of the application will be faster if you use PreparedStatement interface because query is compiled only once.**
    b. The performance of the application will degrade if you use PreparedStatement interface.
    c. **PreparedStatement object is preferred in case we fire repetitive kind of queries.**
    d. PreparedStatement Interface is a Super Interface of Statement.

26. Which of the following activatedRoute is used to access?
    (select 2 options) Options:
    a. **Route parameters**
    b. Params
    c. **Query parameters**
    d. Route

27. Explicit dependency injection in constructor specified by using ___decorator? options:
    a. **@Inject**
    b. @Injectable
    c. @Explicit
    d. @Hostbinding
    e. @Host

28. Study the given CSS3 and HTML5 code excerpts.
    Identify the code snippet that is the declaration for formatting a link to a specified color after that link has been clicked.
    Select the correct option.
    <style>
    font-family: Calibri;
    font-size: 16pt;
    color: #000000;
    text-decoration: none;

a: hover {color: #ff0000;}

a: visited {color: #4c00ff;}

</style>

<body>

Home

About Us

News

Contact Us

</body>Options:

a. a: visited {color: #4c00ff;}

b. a: hover { color: #ff0000; }

c. <a href="#">

d. color: #000000;

29. In angular routing, which tag is used to matched component via active table? Options:

    a. <route></router>

    b. <router-output></router-output>

    c. <router-outlet></router-outlet>

    d. <router-display></router-display>

30. Given the below code:

    Public class Student

    {

        public String sName;

        public char grade;

    public static void main (String [] args)

    {

    Student s = new Student ();

    System.out.println ("[" + S.sName +":"+S.grade + "]");

    } }

    What will be the output for the following code?

    a. [null:]

    b. [:]

    c. [null:null]

    d. [:null]

31. which one is the correct order of phases in JSP life-cycle?

    options:

    a. Initialization, Cleanup, Compilation, Execution.

    b. Initialization, Compilation, Cleanup, Execution.

    c. Compilation, Initialization, Execution, Cleanup.

    d. Cleanup, Compilation, Initialization, Execution.

32. Given the below code. What is the result?

    interface Fish { }

    Class perch implements Fish { }

    Class Walleye extends perch { }

    Class Bluegill { }

    Public class Fisherman {

    Public static void main (String [] args) {

    Fish f = new Walleye ();

    Walleye w = new Walleye ();

    Bluegill b = new Bluegill ();

    if (f instanceof perch) System.out.print("f-p");

    if (w instanceof Fish) System.out.print("w-f");

    if (b instanceof Fish) System.out.print("b-f");

    } }

    a. w-f

    b. f-p w-f

    c. w-f b-f

    d. f-p w-f b-f

    e. Compilation fails

    f. An exception is thrown at runtime.

33. Consider a Java program being executed to read gigabytes of a file. For each line it reads, a Jave object corresponding to the created. After some time, JVM is not able to allocate memory to create object, In this scenario, choose the correct statement from

    a. JVM will throw an Exception which programmer can handle and program can continue to read the next line.

    b. JVM will throw an Error which programmer can handle and program can continue to read the next line.

c. **JVM will throw an Error and program will abort as this situation cannot be handled by programming.**

d. JVM will throw an Exception and program will abort as this situation cannot be handled by programming.

34. Which of the following are the correct statements?

a. **Typescript can be compiled to all major versions of Javascript.**

b. Typescript can be compiled to only latest versions of Javascript.

c. **Typescript can be used for cross-browser development.**

d. Typescript supports only specific browsers like Edge.

35. Which of the attribute belongs to JSTL core forEach element?

a. let

b. each

c. **items**

d. test

36. Which of the following is true about Servlet Filter?

a. Filter is used to listen to the events related to HttpSession.

b. Fiter Chain is used to notify any attributes added or removed.

c. **Filter intercepts the flow of request and response between the servlets.**

d. Filter is used to filter the exceptions that occur during the execution of the servlet.

37. Imagine you are working as a software engineer and you have written the following program:

import java.util.*;

public class TestQuestion {

public static void main(String[] args) {

List <String> mylist = new ArrayList<String>();

mylist.add ("niraj");

mylist.add ("kumar");

mylist.add ("verma");

Collections.sort (mylist);

System.out.println(mylist); }}

What will be the output when the preceding program is compiled and execute

a. **The program will display the output as: [kumar, niraj, verma]**

b. The program will generate compilation error.

c. The program will display the output as: [niraj, kumar, verma]

d. The program will throw a runtime exception.

38. What will be the output for the following code?

abstract class Demo{ public char alpha; Demo () {

ca

alpha='D';

}

}

public class Tester extends Demo {

final public void setAlpha (char alpha) {

this.alpha=alpha; }

final public void getAlpha () {

System.out.println("alpha = "+alpha);

}

public static void main (String [] args) {

Tester obj=new Tester ();

obj.setAlpha ('A');

obj.getAlpha ();

}}

a. alpha = A

b. alpha = D

c. Error as subclass of abstract class cannot have final methods.

d. Error as abstract class Demo does not have abstract method.

39. Given the code fragment:

List<String> items = new ArrayList<>();

items.add(1, "pen");

items.add(2, "pencil");

items.add (3, "erasers");

items.add("paper");

for (String x: items) {

System .out.print (x + " "); }

What will be the output for the following code?

a. pen pencil erasers paper

b. paper pen pencil erasers

c. A compilation error occurs

d. A runtime exception is thrown.

40. Which Git command is used to add files that are currently unstaged to the staging area?

a. stage

b. commit

c. add

d. push