1. **How do you declare a tag library within a JSP page to use custom tags?**

   a. By using unique variable
   b. By using Scriptlet
   c. **By using taglib directive**
   d. By using path to the tag handler

2. **What is the syntax of expression language in a JSP page?**

   a. ${"expr"}
   b. #{expr}
   c. **${expr}**
   d. $[expr]

3. **What is the data type of m in the following code?**
   import java.util.*;
   public class set1
   {
   Public static void main(String[]args)
   {
   Set s=new HashSet();
   s.add(20);
   s.add("abc");
   for(_____m:s)
   Sysytem.out.println(m);
   }
   }

   a. set1
   b. Int
   c. **Object**
   d. String

4. **Which method of JSP is equivalent to service method of servlet?**

   a. jspService()
   b. jsp_Service()
   c. service()
   d. **_jspService()**

5. **You are developing a web application using servlets. You have to use filters so that the web container intercepts the incoming requests before it is forwarded to the servlet. Which of the following method is called for every request intercepted by the filter?**

   a. init
   b. **doFilter**
   c. doGet
   d. destroy

6. **Consider you are developing java application in a team consists of 20 developers and you have been asked to develop class by name Programmer Analyst and to ensure that other developers in team use Programmer Analyst class only by creating object and team member should not be given provision to inherit and modify any functionality written in Programmer Analyst class using inheritance .How do you achieve this requirement in development scenario?**

   a. None of the listed options
   b. Declare the Programmer Analyst class has private
   c. **Declare the programmer Analyst class has final**
   d. Declare the Programmer Analyst class has abstract

7. **What object of JSP holds reference to javax.servlet.http.HttpSession object?**

   a. Request
   b. **Session**
   c. Response
   d. pageContext

8. **Consider Vijay is developing a web application. Which method he can use to get a collection of same type (for example paragraph tags) in Java Script?**

   a. getElementByName()
   b. getElementById()
   c. None of the listed options
   d. **getElementByTagName()**

9. **Examine the PL/SQL Block**
   declare
   result number;

```
num1 Number=&number1;
num2 Number=&number2;
begin
select num1/num2 into result from dual;
dbms_output.put_line('Result is'||result);
exception
when ZEROS_DIVIDE then
dbms_output.put_line('Exception occurred divide by zero');
end;
/
```

What will be the output of the above code when user passes the value of NUM1 as 0 and NUM2 as 10?

a. Compiles successfully and terminates the program due to an Exception
b. Exception Occurred Divide by Zero
c. Compilation fails
d. Result is 0
e. Result is 10

10. **Consider you are maintaining XYZ company database. XYZ database tables are accessed by several users to fetch daily reports by joining multiple tables , each user writes query which is more than 100 lines of SQL statement and submits to server for processing in order to fetch results. This is really increasing the network traffic and also response time. What is the right solution you will implement in such scenarios in order to increase the performance?**

a. Create trigger
b. Create Stored Procedure.
c. Create Index
d. Create View.

11. **Which of the following attributes of page derivatives are invalid?**

a. Session
b. isELignored
c. language
d. isScriptingEnabled

12. What will be the output of below Query

Select to_Char(sysdate+(10/1400),'HH:MI:SS') from dual;

a. **Query contains error**
b. Adds 10 days to current timestamp
c. Adds 10 days to current timestamp
d. Date functions cannot be converted to char
e. Adds 10 seconds to current timestamp

13. Which of the following is an empty tag in HTML?

a. <h1>
b. <input>
c. **
**
d. <a>

14. What will be the output of following code

```
Public class CompareStrings{
Public static void main(String[] args)
{
String a =new String("String");
String s =new String("String");
If(a==s)
{
System.out.println("both strings are  equal");

}else
{
System.out.println("both are not equal");

}
}
}
```

a. Compilation error
b. **Strings cannot be compared using == operator**
c. Both strings are equal
d. Both strings are not equal

15. **Identify the type of variable declared**

    VARIABLE City Varchar2(20)

    a. **Bind variable**
    b. Global Variable
    c. Host Variable
    d. Invalid Variable declaration
    e. None of the listed options

16. **What is the correct syntax of the declaration which defines the XML version**

    a. <?XML Version="1.0"/>
    b. None of the listed options
    c. <XML Version="1.0"/>
    d. **<?XML Version="1.0"?>**

17. **Gen has written a JSP code in which he is calling the getMessage() function which is returning a value "hello World".You have to identify which code should he use to get this?**

    a. <html>

<%!

String messgae="hello World",

String getMessage()

{

Return message;

}

%>

Message For You:<%! getMessage()%>

</html>

    b. **<html>**

```
<%=
String message="hello World",
String getMessage()
{
Return Message();
}
```

18. Which Tool verifies for best practice adherence?

a. ANT
b. **PMD**
c. **Check Style**
d. CPD

19. A Container does not initialize the servlets as soon as it starts up,it initializes a servlet when it receives a request for that servlet first time.This is called lazy loading. State True or False

a. **True**
b. False

20. abstract public class Employee
```
{
Protected abstract double getSalesAmount();
Public abstract double getSales Amount();
Oublic double getCommision()
{
Return getSalesAmount()*0.15;
}
}
Class Sales extends Employee
{
//insert method here
}
```
Which two methods,inserted independently,correctly complete the sales class?(choose two)

a. Double getSalesAmount(){ return 1230.45;}
b. Public double getSalesAmount(){return 1230.45;}
c. Private double getSalesAmount(){return 1230.45;}
d. Protected double getSalesAmount(){return 1230.45;}

21. Consider the development scenario where you have created Employee class with implementation code as per the project requirement you have to ensure that developer in team reusing code written in Employee Class using inheritance by extending the employee class but not by creating the instance of Employee object directly.Please suggest the solution to implement given requirement?

a. Make Employee class methods public
b. Mark Employee class with abstract keyword
c. Mark Employee class with final keyword
d. Mark Employee class methods private

22. Which of the following are used for executing client side script?

a. Servlets
b. JavaScript
c. JSP
d. VB Script

23. Select the right coding best practices followed while using java collections

a. Copy collections into other by calling addAll() methods instead using iterator to copy each collection element
b. Use Collections with generic with same type of data
c. All of the listed options
d. Use for loop of iterator

24. What are the types of refactoring?

a. Logical Structure
b. Physical Structure
c. Method Level

d. **Class Level Structure**

25. **An ObjectInputStream deserializes objects previously written using an ObjectOutputStream.**

   State True or false.

a. **true**
b. false

26. **Consider Vijay is developing web page using HTML.Which method he can use for sending data security on submitting the form?**

1.post

2.get

   a. **2**
   b. 1
   c. both 1&2
   d. none of the above

27. **You have a row level BEFORE UPDATE trigger on the EMP table.This trigger contains a SELECT statement on the EMP table to ensure that the new salary value falls within the minimum and maximum salary for a given job title.What happens when you try to update a salary value in the EMP table?**

   a. The trigger fails because you cannot use the minimum and maximum functions in a BEFORE UPDATE trigger.
   b. The trigger fails because a SELECT statement on the table being updated is not allowed.
   c. **The trigger fires successfully.**
   d. The trigger fails becaude it needs to be a row level AFTER UPDATE trigger.

28. **John wants to see how many employees are there whose salary is above average.Which of the following query will help john to achieve this task?**

   a. **Select count(*) from emp where sal>(select Avg(sal) from emp);**
   b. Select count(*) from emp where sal exist (select avg(sal) from emp);
   c. Select count(*) from emp where sal>(select Average(sal) from emp);
   d. Select count(*) from emp where sal>(select max(sal) from emp);
   e. Select count(*) from emp where sal in(select avg(sal) from emp);
29. **Method keyset() in Map returns a set view of the keys contained in that map.**

   a. **true**
   b. false

30. Consider the following code for an HTML form.

<form action=?/servlet/Login?)>

<input type=?text?name=?username?value=?enter username?/>

<input type=?submit?name=?sbbutton?value=?signin!..?/>

</form>

Which of the following happens upon pressing the submit button in the above form?(choose 2)

    a. **A request is sent with HTTP method GET**
    b. A request is sent with the HTTP method POST
    c. The parameter username is the only parameter passed to the web server in the request.
    d. **The parameters username and sbbutton are passed to the web server in the request URL.**

31. Consider the usage of JSTL forEach tag in the following code snippet:

<c:foreach flag=errmsg items="${errorMsgs}">

$errmsg

</c:forEach>

The code snippet contains some errors.Predict the correct code.

    a.

<c:forEach flag="errmsg" items="${errorMsgs}">

${errmsg}

</c: forEach>

b.   <font color='green'>

<end>

ANSWER:--

32. Consider the following statements:

Statement A:A resource is passive when it does not have processing of its own.

Statement B: The content of a passive resource does not change.

Which of the following is true about these statements?

   a.   Statement A is false and Statement B is false
   b.   Statement A is true and Statement B is true
   c.   Statement A is true and Statement B is false
   d.   Statement A is false and Statement B is true

ANSWER:--

33. Automatic page Refresh can be done by using Refresh Meta Tag.

State true or false

   a.   **true**
   b.   false

34. If your JDBC Connetion is in auto-commit mode,which it is by default,then every SQL statement is committed to the database upon its completion. State True or false

   a.   **true**
   b.   false

35. XYZ Company database tables are accessed by several users but for users need to be provided provision for updating information like address,phone number,email address in secured manner without providing direct access to underlying database base tables.What will the right solution you will implement in such scenario to meet requirement?

   a.   Use database functions
   b.   **Create Views**
   c.   Use database Trigger
   d.   Use cursors

36. **Which complex type specifies that the elements should always be in the order specified?**

   a. a.None of the listed options.
   b. b.<xs:complexType name="CountrlInfo"><xs:all><xs:element name="countryName" type="xs.string"/><xs:element name="states"type="xs:integer"/></xs:all></xs:complexType>
   c. c.<xs:complexType name="="CountrlInfo"><xs:choice><xs:element name="countryName" type="xs.string"/><xs:element name="states"type="xs:integer"/></xs:choice></xs:complexType>
   d. **.<xs:complexType name="="CountrlInfo"><xs:sequence><xs:element name="countryName" type="xs.string"/><xs:element name="states"type="xs:integer"/></xs:sequence></xs:complexType>**

37. **How to divide the page into two equal halves when we are using frameset?**

   a. **By using cols=50%,50%**
   b. By using colspan
   c. **By using rows=50%,50%**
   d. By using rowspan

38. **Which of the following is valid declaration in JSP using declaration tag?**

   a. **<%!String name="Rocky";%>**
   b. <%=public String name+"Anand";%>
   c. <!%String name="Rocky"%>
   d. <%@String name="Anand"%>

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

Statement1: When a thread is sleeping as a result of sleep(), It releases its locks.

Statement2: The Object wait() method can be invoked only from a synchronized context.

   a. Both statement1 and statement2 are true.
   b. Both statement1 and statement2 are false.
   c. Statement1 is true but Statement2 is false.
   d. **Statement1 is false but Statement2 is true.**

40. **XYZ Company database tables are accessed by several users want to do positional row updates or delete operation on databases tables based on business requirement. What is the right solution you will implement in such scenario.**

a. Use database indexes
b. Use Cursors
c. Use database trigger
d. Use view

41. **Which statement is true about Java Server Pages?**

    a. Platform dependent.
    b. HTML files with special tags that contain java source code to generate dynamic content.
    c. All of the listed options.
    d. Used to build dynamic web pages.

42. **Consider the following statements.**

Statement A: When tags are implemented with tag handlers in java, each tag in the library must be declared in the TLD with a tag element.

Statement B: The tag element contains the tag name, the class of its tag handler, information on the tag's attributes, and information on the variables created by the tag.

Which of the following is true about these statements?

    a. Statement A is false and Statement B is true.
    b. Statement A is true and Statement B is true.
    c. Statement A is false and Statement B is false.
    d. Statement A is true and Statement B is false.

43. **An art of identifying, organizing, controlling and verifying the modification to the software work products built by the developer.**

    a. SVN
    b. SCM
    c. HCM
    d. SDLC

44. **Which parser is a W3C standard?**

    a. None of the listed options
    b. SAX
    c. DOM
    d. XHTML

45. **Sam is writing a web application program. He has implemented ServletContextListener interface in his web application program. Which method of ServletContextListener interface he should use to perform startup activities for web applications?**

      a. Start()
      b. initiateContext()
      c. contextInitialized()
      d. init()

46. **Consider you are developing a JDBC application, where you have to retrieve quarterly report from database by executing database store procedure created by database developer. Which statement API you will use to execute store procedure and retrieve ResultSet information?**

      a. Callable Statement
      b. Prepared Statement
      c. Statement
      d. None of the listed options