

1. Which of the following method will you call on Request Dispatcher object to send the control to a servlet/JSP.
 - ☒ forward()
 - ☐ redirect()
 - ☐ send()
 - ☐ redirect()
2. Choose the different categories of GoF design patterns.
 - ☒ Behavioural
 - ☒ Structural
 - ☐ Notional
 - ☐ Emprical
 - ☒ Creational
3. Which of the following is NOT a Container feature?
 - ☐ JSP support
 - ☒ Application Controller
 - ☐ Servlet lifecycle manager
 - ☐ Multithreading support

4. <servlet>

<servlet-name>Servlet1</servlet-name>

<servlet-class>myPackage.myServlet</servlet-class>

</servlet>

With repect to above code segment which of the following statements are true?

- ☒ It tells the container where to find the servlet
 - ☒ This code belongs to the deployment descriptor
 - ☐ It is a mapping between URL and a servlet
 - ☒ It is a mapping between servlet name and fully quantified name of the class
-
5. A developer for the company web site has been told that users may turn off cookie support in their browser. What must the developer do to ensure that these customers can still use the web application?
 - ☐ The developer can ignore this issue. Web containers are required to support automatic URL rewriting when cookies are not supported.
 - ☐ The developer must add the string id=<sessionid> to the end of every URL to ensure that the conversation with the browser can continue.
 - ☒ The developer must ensure that every URL is properly encoded using the appropriate URL rewriting APIs.
 - ☐ The developer must provide an alternate mechanism for managing sessions and abandon the HttpSession mechanism entirely.

6. Which of the following element is used to specify useful information about an initialization parameter of a servlet in the deployment descriptor?
- param-description
 - info
 - init-param-info
 - description
7. A JSP page needs to set the property of a given JavaBean to a value that is calculated with the JSP page. Which of the following `jsp:setProperty` attributes must be used to perform this initialization?
- value
 - property
 - name
 - attribute
 - id
8. During translation the scriptlet code is copied inside _____.
- the init method of the generated servlet.
 - the `doGet()` method of generated servlet.
 - the service method of generated servlet.
 - Scriptlet code gets no place in generated servlet.
9. You need to identify the browser type from which client request is forwarded and perform action before further processing takes place in business logic. which is the best way to achieve this?
- Use composite view pattern
 - Use multiple if-else conditions in your business logic
 - Use business delegate pattern
 - Use filter class (Intercepting filter pattern)
10. Given in a single JSP page:
- ```
<%@taglib prefix='java' uri="myTags"%>
```
- ```
<%@taglib prefix='JAVA' uri="moreTags"%>
```
- Which of the following are true?
- The prefix 'java' is reserved.
 - For the tag usage `<java:tag1/>`, the tag1 must be unique in the union of tag names in 'myTags' and 'moretags'.
 - The URI 'myTags' must be properly mapped to a TLD file by the web container.
 - A translation error occurs because the prefix is considered identical by the web container.
11. Which of the following statements are true?
- ServletContext is one per application.
 - ServletConfig is one per web application.
 - ServletContext is one per servlet.
 - ServletConfig is one per servlet.

12. Which one of the following is true?

- ☐ A java bean cannot be accessed through JSP scriplet
- ☐ Methods in a java bean are always private
- ☐ Variables in java been are always public
- ☒ A java bean cannot be accessed through JSP standard action

13. Select correct EL codes to print the first element of an array named employeeArray.

- ☒ `${employeeArray["0"]}`
- ☐ `${employeeArray.[0]}`
- ☒ `${employeeArray[0]}`
- ☐ `${employeeArray.["0"]}`

14. Where is JSP executed?

- ☐ Both in Server Machine & Client machine
- ☐ Depends upon configuration
- ☐ Client Machine
- ☒ Server machine

15. Servlet A receives a request that if forwards to servlet B within another web application in the same web container. Servlet A needs to share data with servlet B and that data must not be visible to other servlets in A's web application. In which object can the data that A shares with B be stored?

- ☐ HttpSession
- ☒ ServletContext
- ☐ HttpSessionResponse
- ☐ HttpServletRequest

16. The XYZ company has decided to port their web application to a new J2EE 1,5 container. While reviewing the application, a developer realizes that in multiple places within the current application, nearly duplicate code exists that finds enterprise beans. Which pattern should be used to eliminate this duplicate code?

- ☐ Transfer Object
- ☒ Business delegate
- ☐ front controller
- ☐ Service Locator

17. Which of the following are true about MVC architecture?

- ☒ Servlet forms the controller part
- ☒ Ease of maintenance and promotes reusability
- ☐ JSPs are the target of all requests
- ☒ Servlets are the target of all requests
- ☐ Jsp forms the controller part

18. What is the default HTTP method?

- ☐ HEAD
- ☒ GET
- ☐ POST
- ☐ PUT

19. Identify model component in an MVC pattern.

- ☐ Browser
- ☐ ActionServlet
- ☐ JSP
- ☒ Data Bean

20. Which of the following statement is correct?

- ☐ You can override init() method but you should not
- ☒ You can override init() method to fetch the init params and execute an initial code
- ☐ You can override init() method to set an init param
- ☐ You can override init() method to cleanup database connection

21. Which of the following statements are true with regards to URL rewriting?

- ☒ None of the listed options
- ☐ Server sends a text file to the client machine for maintaining session
- ☐ You encrypt the URL for security purposes
- ☐ You manually append sessionid to URL

22. If no file name is specified in the URL, which tag is used to config default page for the web site in web.xml?

- ☐ <welcome-list><welcome-file>default1.jsp</welcome-file><welcome-file>default2.jsp</welcome-file></welcome-list>
- ☐ <welcome><welcome-file>default1.jsp</welcome-file><welcome-file>default2.jsp</welcome-file></welcome>
- ☒ <welcome-file-list><welcome-file>default1.jsp</welcome-file><welcome-file>default2.jsp</welcome-file></welcome-file-list>
- ☐ <file-list><welcome-file>default1.jsp</welcome-file><welcome-file>default2.jsp</welcome-file></file-list>

23. Choose the servlet code fragment that gets a binary stream for writing an image or other binary type to the HttpServletResponse?

- ☐ java.io.PrintWriter out= new PrintWriter(response.getWriter());
- ☒ ServletOutputStream out= response.getOutputStream();
- ☐ ServletOutputStream out= response.getBinaryStream();
- ☐ java.io.PrintWriter out= response.getWriter();

24. Front Controller is a presentation tier pattern. State True or false.

- ☒ True
- ☐ False

25. Which of the following EL implicit objects is not a Map?

- ☐ headerValues
- ☒ pageContext
- ☐ requestScope
- ☐ initParam

26. ServletConfig comes into picture _____

- ☐ after service() runs
- ☒ after servlet is loaded
- ☐ after constructor runs
- ☐ after init() runs

27. _____ is a runtime, container-managed object that evaluates custom actions during the execution of a JSP page.

- ☐ URI
- ☐ Tag library descriptor
- ☐ Tag library
- ☒ tag handler

28. user provided the value 31 in a textbox named "age". What will be the output of \${param.age ge 25}?

- ☐ 31
- ☐ 1
- ☐ 25
- ☒ True

29. Select the correct flow of Servlet lifecycle.

- ☒ Loading-> Instantiation -> Initialization -> Execution -> Destroy
- ☐ Loading-> Execution -> Instantiation -> Initialization -> Destroy
- ☐ Loading-> Initialization -> Instantiation -> Execution -> Destroy
- ☐ Loading-> Initialization -> Instantiation -> Execution -> Destroy

30. Given the JSP code:

```
<% request.setAttribute("foo","bar"); %>
```

and the Classic tag handler code:

```
5. public int doStartTag() throws JspException {
```

```
6. //insert code here
```

```
7. // return int
```

```
8. }
```

Assume there are no other "foo" attributes in the web application. Which invocation on the pageContext object, inserted at line 6, assigns "bar" to the variable x?

- ☐ String x= (String) pageContext.getRequestedScope("foo");
- ☐ String x= (String) pageContext.getAttribute("foo");
- ☒ String x= (String) pageContext.getRequest().getAttribute("foo");
- ☐ It is NOT possible to access the pageContext object from within doStartTag.

31. Attribute value stored in context memory(ServletContext object) is by default thread safe. State true or false.

- ☒ true
- ☐ false

32. _____ is a collection of actions that encapsulate some functionality to be used from within a JSP page.

- ☐ Tag library descriptor
- ☐ URI
- ☐ Presentation
- ☒ Tag library

33. A serializable object for transferring data over the network is an example of which of the following design pattern?

- ☐ Assembler
- ☐ Session Facade
- ☒ Transfer Object
- ☐ Network Object

34. param attribute of <jsp:setProperty> is used to perform which of the following tasks?

- ☒ Fetching a parameter from request object and setting it as a bean property
- ☐ Setting a parameter in request object
- ☐ fetching a parameter from application object and setting it as a bean property
- ☐ fetching a parameter from session object and setting it as a bean property

35. Which of the following statements are true?

- ☐ A JSP must contain some java code
- ☐ JSP executes faster than HTML
- ☒ A JSP can contain only HTML
- ☒ A JSP is executed at server and plain HTML is sent back to the client browser.

36. Which of the following statement about EL access operator is true?

- ☒ Anywhere the .(dot) operator is used, the [] could be used
- ☐ There are some situations where the .(dot) operator must be
- ☐ Anywhere the [] operator is used, the .(dot) could be used
- ☐ If the .(dot) operator is used to access a bean property but the

37. Which of the following is used to import a class in a jsp file?

- ☒ <%@page import="java.util.List"%>
- ☐ None
- ☐ <%@ import file="java.util.List"%>
- ☐ <%@import.java.util.List %>

38. In an HTTP request browser information is sent in _____.

- ☐ the initial request line
- ☐ browser information is not sent to the server
- ☐ the payload
- ☒ the header

39. Init params are accessible in Servlet constructor. State True or false.

- ☐ true
- ☒ false

40. Which of the following statement is true?

- ☐ A servlet is a JSP file with embedded Java
- ☒ A servlet is a java program with embedded HTML
- ☐ None
- ☐ A JSP is a java program with embedded HTML

41. Which of the following HTTP method puts or replaces a document on the server?

- ☒ PUT
- ☐ GET
- ☐ TRACE
- ☐ POST

42. Which of the following statements are true?

- ☒ The purpose of EL is to make a JSP Script free
- ☐ EL is evaluated at client machine
- ☐ EL stands for Extended language
- ☒ EL is enabled in JSP by default
- ☒ EL is a simple and powerful replacement of Standard Actions

43. How Instantiation and Initialization of Servlet is done?

- ☐ By Servlet itself
- ☐ By JSP
- ☒ By Container
- ☐ None

44. Which of the following statement is true?

- ☒ ServletConfig is unique for each servlet
- ☐ ServletContext is unique for each servlet
- ☒ ServletContext is common for all the servlet
- ☐ ServletConfig is common for all the servlet

1. StringBuffer i=new StringBuffer("welcome")

StringBuffer j=new SrtingBuffer("welcome")

If(i==j))

Sop("equals");

else

Sop("not equal");

ans = not equal..

2. how to divide pa page into two rows?

a) rowspan b) colspan c) rows="50%50%" d) cols="50%50%"

ans: c

3. HTML is not a used for programming logic. Ans: true

4. Filters can generate auto-response : true/False? ans true

5. Long l=100;

syso(l);

ans: error

6. i=12

j=13

k=++i-j--;

ans : 13,12,0

7. div has automatic line break as of para tag.

ans: true

8. how print the request address?

a) \${request.address} b) \${param.address} ans: b

9. scripting should be done in header part

10. Servlet first time instantiation this is lazy loading ans: true

11. large data should be sent in Post method.

12. which reads only small chunk of data **ans:SAX**

13. synchronize **ans: hashtable, vector.**

14. interface hav only function & behaviour not implementation code **ans:true**

15. PMD tool check Violation, code standards, all **ans:all**

16. xml version first line **ans:<? xml version="1.0" ?>**

17. how to name a package? **ans:com.pack.sun, pack123, pack_123**

18. person don't want to share the content ? **WEB_INF**

19. servlet life cycle ***init *service *destroy with and without
parameter(destroy(),destroy(ServletContext)).**

20. atm there are two users who have add on cards...how to ensure that one's transaction starts after another one completes his transac...

ans...thread synchronization

21. which is more secure comparing get and post? **Ans: post**

22. what part of trigger determines the number of times d trigger body is executed?

a)trigger type b) trigger timing c)trigger body d)trigger event **ans:a**

23. Grant ALL

on orders,suppliers TO PUBLIC.

identify the errors in the oracle statement?

24. how wil u transform d xml document? **XSTL**

25. select instr('my java world','q') from dual;

ans.....0

27.How 2 declare a tag library to use custom tags?

ans...by using taglib directive

28.what is d use of versioning in s/w?

ans...Branching and merging,backup and restore,synchronization

29. try should be followed either by catch or finally **ans:true.**

```
Q-1)      import javax.servlet.http.*;

           public class SessionListener implements HttpSessionListener
           {
line1--      public void sessionCreated() {
               System.out.println(" Session Created: ");
               }
line 2--      public void sessionDestroyed() {
               System.out.println(" Session Destroyed:");
               }
           }
```

which one in wrong(check box):

(1) line one :method does not contain correct argument

(2) line two: method does not contain correct argument

(3) import statement doesnot implement HttpSessionListener interface

(4) all method of HttpSessionListener should not implement in this code

ANS: according to me option 1 and 2 both wrong

because correct syntax is:

```
public class SessionListener implements HttpSessionListener
{
    public void sessionCreated(HttpSessionEvent event) {
        System.out.println(" Session Created: ");
    }
    public void sessionDestroyed(HttpSessionEvent event) {
        System.out.println(" Session Destroyed:");
    }
}
```

(Q-2) <%@page contentType="text/html" %>

<html>

<body>

<%! int a=6;%> //line--4

<% int b=8;%> //line--5

result <%=a*b;%> //line--6

</body>

</html>

options:

(1)line 4 is not correct syntax

(2)line 5 is not correct syntax

(3)code compile sucessfully and display 48

(4)line 6 is not correct syntax

Answer----4

(Q--3)purpose of JSP Expression:

options:

(1)Declare variables;

(2)write block of java code

(3)print something on screen

(4)import java class and other jsp file ,html page

Answer: 3

(Q--4) which one is correct:

(1)you can override init() method to set on init param

(2)you can override init() method to clean up database connection

(3)you can override init() method to fetch init param & execute initial code

(4)you can override init() method but you should not do

Answer:---3

(Q--5)import attribute of page directive use :

(1)to import other jsp page and other html file

(2)to import java class & package

(3)to import taglib and other custom tag

(4)any one of the above

Answer:2(but not confirm;;;;)

(Q--6) you are employee of ABC company & your client has dissabled cookie what u will do:

(1)you will use URL rewriting

(2)you ignore and leave on container to decide it(container take care it)

(3) you enable session tracking management for JSP pages if the client has disabled cookies

Answer : 1

(Q--7) which of the following method is over- ridden

- (1) JSPInit()
- (2) JSPDestroy()
- (3) _JSPService()
- (4) none of these

Answer: 1 & 2 but not confirm

(Q--8) Which of the following correctly defines JSP technology ?

- (1) JSP page is a text-based document that describes how to process a request to create a response.
- (2) JSP page is a text-based document that describes how to process a request to create a response.
- (3) JSP page is a xml-based document that describes how to process a request to create a response.
- (4) JSP page is a xml-based document that describes how to process a request to create a response.

Answer: I am confused in option 1 & 2 plz check it

(Q--9)

Your web application requires the ability to load and remove web files

Which two HTTP methods are used to perform these actions? (Choose two.)

- 1. PUT
- 2. POST
- 3. DELETE
- 4. REMOVE
- 5. DESTROY

answer---1 & 3

(Q--10) question on jsp tag <jsp:setProperty > set bean with bean name is employeeName & bean value is 10

which is employeeId in int

Select Two:

- (1) <jsp:setproperty name="employeeName " property="*/>
- (2) <jsp:setbean name="employeeName " property="employeeid" value =10/>
- (3) <%beanobject.setEmployeeId(int id);%>
- (4) <%beanobject.setEmployeeId(String id);%>

answer ---2 & 3

- 1. Syntax of <c:url>
- 2. Where library descriptor file stored?

a. META-INF/tlds

b. META-INF/

c. WEB-INF/

d. WEB-INF/tlds

- 3. True or false $\{8/0\}=\text{infinity}$ — **Ans:true**

- 4. <pre:tag1>

<%=name%>

</pre:tag1>

- a. jsp
- b. Tagdependant
- c. Empty
- d. Scriptless**

- 5. Your servlet class extends.....

a. HttpServlet

- b. Servlet
- c. GenericServlet

6. Which implicit object is used unique identifier user....

- a. Request
- b. Response
- c. Application

d. Session

7. How you can set session timeout for 2 minutes??

Answer:

a. `<session-timeout>2</session-timeout>`

b. `Session.setMaxInactiveSession(120);`

8. Which listener is used when session is created??

Answer: `HttpSessionListner`

9. Which listener attribute is used for listerner tag??

Answer: `<listener-class>`

10. Which used for print el `${var}`

Answer : `<c:url value="" ">`

11. Choose the right

Answer : a. `<jsp:include page="">`

b. `<%@ include file="" %>`

Translation and compilation is done at..

- a. Execution
- b. Deployment**
- c. Undeployment
- d. None of the above

12. Which is used when cookies not used in session management?

Answer: `url rewriting not cookies`

13. Which is used to extract the values of request parameter address?

Answer: `${param.address}`

14. Feature not contained in container

- a. Servlet life manager
- b. Session management
- c. **Application controller**
- d. Multithreading support

15. . You have created a web application that you license to real estate brokers. The webapp is highly customizable including the email address of the broker, which is placed on the footer of each page. This is configured as a context parameter in the deployment descriptor:

```
<context-param>
<param-name>footerEmail</param-name>
<param-value>joe@estates-r-us.biz</param-value>
</context-param>
```

Which EL code snippet will insert this context parameter into the footer?

```
<a href='mailto:${footerEmail}'>Contact me</a>
<a href='mailto:${initParam@footerEmail}'>Contact me</a>
<a href='mailto:${initParam.footerEmail}'>Contact me</a>
<a href='mailto:${contextParam@footerEmail}'>Contact me</a>
<a href='mailto:${contextParam.footerEmail}'>Contact me</a>
```

16. Select two options to retrieve first value in request variable

```
Answer: request.getParameter("...");
Request.getParameterValues("...")[0];
```

17. How to access the variables for in variable name using EL

```
Answer: ${name["fort"]}
${name.fort}
```

18. Which header is header used to retrieve the info of "User-agent"?

```
Answer: response.getHeader("User-Agent");
```

1. do get method syntax ..? **ans : do get (HttpServletRequest request, HttpServletResponse response)**

2. request is the object of ..?

Ans: HttpServletRequest

3. EL consider null values as zero..? **ans: true //not sure**

4. <%! a=6%>

<%b=3%>

<%a=5%>

What is the result of `<%=a*b%>`

Ans: 15

5.how will u send cookie in response..?

Ans: `response.addCookie(new cookie(" ", " "))`

6.where is the `<servlet-name>` element is present in DD.

Ans: in `<servlet>` tag and in `<servlet-mapping>` tag

7.which methods can be overridden in JSP..?

Ans: `JSPinit();` and `JSPdestroy();`

8.if servlet class implements single thread model then what will happen..?

Ans: only one thread will run for servlet

9.if session variable s is not in session and `#{true and s[0]}...`? Ans: false [bcoz EL will not throw any Null Pointer exception , it will consider it as 0 or False]

10.`httpSession session= request.getSession(true);`

`Session.setAttribute(" ", " ")`

`setMaxInactiveSession(0);`

`if(session.is New())`

{

-----//getAttribute...

}

Else

{

}

Ans: nothing will display,session will expire.... // not sure

13. what is the return type of getattribute method..? **ans: object**

14.one question was that there were two custom tags Tag1 and Tag2(which is extending from Tag1) of which Body content should not be empty. They have asked how we can implement these tags in our code and they have given options of different possibilities.

Ans: **//Not sure just go through it once**

<tag1>

<tag2>

Addsgada

</tag2>

</tag1>

16.What is the default scope of useBean?

Ans: Page **//not sure**

20. question: Which are true[choose any two]

Ans:

a.ServletCongig is one per Servlet

B. SERVLETcONTEXT IS ONE PER APLLICATION

21. Which argument we pass to Servlet Init method?

Ans: **ServletConfig**

2. implicit objects -**application, exception, PageContext**

3. ServletConfig- **One per Servlet, Servletcontext one per application**

7. You have created a web application that you license to real estate brokers.The webapp is highly customizable including the email address of the broker, which is placed on the footer of each page. This is configured as a context parameter in the deployment descriptor:

<context-param>

<param-name>footerEmail</param-name>

<param-value>joe@estates-r-us.biz</param-value>

</context-param>

Which EL code snippet will insert this context parameter into the footer?

`Contact me`

`Contact me`

`Contact me`

`Contact me`

`Contact me`

8. How to store java primitive types in session? `longattribute`

9. Select two option to retrieve first value in request variable

`request.getParameter(" .");`

`Request.getParameterValues(" .")[0];`

18. `getStream()` of `HttpServletResponse` is object of `ServletInputStream/PrintWriter/etc`

19. switch case for JSTL `<c:when>`

24. to start a servlet we need- `listener`

1. model1 separates view and control: `false`

2. el implicit objects and jsp implicit objects are same- `false`

3. credit card- `post`

4. jsp expression is used to- `print`

5. business tier components- `Business delegates, Transfer objects, Session facade`

6. decouples- `business delegate, business application`

7. singleton- `creational design pattern`

8. xml, html- `mvc`

9. for loop `<int i; i<3; i++>`- `the value of i is 3.`

10. init param can be accessed inside the servlet constructor- `false`

11. `<%!...!>, <%@..@>`- `declaration syntax`

13. structure of http request- `get/uri/http/1.1`

- 15. not related to session-filter
- 16. <c:when>-for switching
- 17. sendredirect()-after commit exception returned(refer when sendredirect() is used)
- 19. setattribute&get attribute-http session,servlet context,servlet request
- 20. el -scriptless,simple & powerful,
- 21. GetParameterNames(String[])-enumeration.
- 22. Singleton-creational.
- 1. model1 used for large applications:false
- 2. object of getwriter is printwriter
- 4. Servlet can declare a constructor-true
- 10. userdefined servelets extends-servlet
- 11. complex multiple views which pattern-composite delegate
- 15. which acts as a controller-servlet

1. Which collection class allows you to access its elements by associating a key with an element's value, and provides synchronization?

- a. java.util.SortedMap
- b. java.util.TreeSet
- c. java.util.Hashtable
- d. None

2. Suppose that you would like to create an instance of a new *Map* that has an iteration order that is the same as the iteration order of an existing instance of a *Map*. Which concrete implementation of the *Map* interface should be used for the new instance?

- a. TreeMap
- b. HashMap
- c. LinkedHashMap
- d. The answer depends on the implementation of the existing instance.

3. Which loop automatically iterates over the specified object and reads values one-by-one ?

- a. For
- b. For Each
- c. Iterator
- d. ListIterator

**4. Which of the following can be used only with List?
(Choose more than one)**

- a. For
- b. For Each
- c. Iterator
- d. ListIterator

5. Which of the following are Iterator Interface methods?

- a. hasNext()
- b. remove()
- c. nextToken()
- d. next()
- e. hasMoreElements()

6. Which class does not override the *equals()* and *hashCode()* methods, inheriting them directly from class Object?

- a. java.lang.String
- b. java.lang.Double
- c. java.lang.StringBuffer
- d. java.lang.Character

7. Which of the following can be used to traverse the list in either direction, modify the list during iteration and obtain the iterator's current position in the list

- a. For
- b. Iterator
- c. For Each

d. ListIterator

8. Which of the following can read elements by specifying the index using the get() method

a. For

b. Iterator

c. For Each

d. ListIterator

9. A collection is a container that groups multiple elements into multiple units

a. True

b. False

10. Choose the correct description of method keyset()

a. Returns a set with all keys contained in the map

b. Returns a collection with all the values contained in this map

c. Returns a set view of the mappings contained in this map

d. Returns a collection with all the values contained in this map

11. Which of the following is Thread Safe ?

a. Hash Table

b. Hash Map

c. Tree Map

d. None

12. Which map interface stores the values in sorted order according to key

a. Hash Map

b. Hash Table

c. Tree Map

d. None

13. Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- a. java.util.HashSet
- b. java.util.LinkedHashSet
- c. java.util.List
- d. java.util.ArrayList

14. Which interface does *java.util.Hashtable* implement?

- a. Java.util.Map
- b. Java.util.List
- c. Java.util.HashTable
- d. Java.util.Collection

15. Which interface provides the capability to store objects using a key-value pair?

- a. java.util.Map
- b. Java.util.Set
- c. Java.util.List
- d. Java.util.Collection

16. What will be the output of the program?

```
import java.util.*;
class I
{
    public static void main (String[] args)
    {
        Object i = new ArrayList().iterator();
        System.out.print((i instanceof List)+",");
        System.out.print((i instanceof Iterator)+",");
        System.out.print(i instanceof ListIterator);
    }
}
```

- a. Prints: false, false, false
- b. Prints: false, false, true
- c. Prints: false, true, false
- d. Prints: false, true, true

17. public class Test

```
{  
    private static float[] f = new float[2];  
    public static void main (String[] args)  
    {  
        System.out.println("f[0] = " + f[0]);  
    }  
}
```

- a. f[0] = 0
- b. f[0] = 0.0**
- c. compile time error
- d. run time error

18. What will be the output of the program?

```
TreeSet map = new TreeSet();  
map.add("one");  
map.add("two");  
map.add("three");  
map.add("four");  
map.add("one");  
Iterator it = map.iterator();  
while (it.hasNext() )  
{  
    System.out.print( it.next() + " " );  
}
```

- a. one two three four
- b. four three two one
- c. four one three two**
- d. one two three four one

19. What will be the output of the program?


```

import java.util.*;
class H
{
    public static void main (String[] args)
    {
        Object x = new Vector().elements();
        System.out.print((x instanceof Enumeration)+",");
        System.out.print((x instanceof Iterator)+",");
        System.out.print(x instanceof ListIterator);
    }
}

```

- a. Prints: false,false,false
- b. Prints: false,false,true
- c. Prints: false,true,false
- d. Prints: true,false,false

21. What will be the output of the program?

```

public class Test
{
    private static int[] x;
    public static void main(String[] args)
    {
        System.out.println(x[0]);
    }
}

```

- a. 0
- b. null
- c. Compile Error
- d. NullPointerException at runtime

22. You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

- a. java.util.Map
- b. java.util.Set

c.java.util.List

d.java.util.Collection

23. Which collection class allows you to associate its elements with key values, and allows you to retrieve objects in FIFO (first-in, first-out) sequence?

a.java.util.ArrayList

b.java.util.LinkedHashMap

c.java.util.HashMap

d.java.util.TreeMap

24. Which is valid declaration of a float?

a.float f = 1F;

b.float f = 1.0;

c.float f = "1";

d.float f = 1.0d;

25.

/* Missing Statement ? */

public class foo

{

public static void main(String[]args)throws Exception

{

java.io.PrintWriter out = new java.io.PrintWriter();

new java.io.OutputStreamWriter(System.out,true);

out.println("Hello");

}

}

What line of code should replace the missing statement to make this program compile?

a. No statement required.

b. import java.io.*;

c. include java.io.*;

d..import java.io.PrintWriter;

26. The Collection interface is the base interface for _____

a. Set

b. List

c. ArrayList

d. Linked List

e. Map

27. The Map is the base interface for _____.

a. TreeMap

b. HashMap

c. LinkedHashMap

d. ArrayList

e. LinkedList

28. Which of the following statements are true?

a. The Collection interface is the root interface for manipulating a collection of objects.

b. The Collection interface provides the basic operations for adding and removing elements in a collection.

c. The AbstractCollection class is a convenience class that provides partial implementation for the Collection interface.

d. Some of the methods in the Collection interface cannot be implemented in the concrete subclass. In this case, the method would throw `java.lang.UnsupportedOperationException`, a subclass of `RuntimeException`.

e. All interfaces and classes in the Collections framework are declared using generic type in JDK 1.5.

f. All the above

29. Which of the following data types does not implement the Collection interface?

- a. HashSet
- b. TreeSet
- c. ArrayList
- d. LinkedList

e. Map

30. If two objects o1 and o2 are equal, what are the values for o1.equals(o2) and o1.hashCode() == o2.hashCode()?

- a. true true
- b. true false**
- c. false true
- d. false false

31. Given:

```
import java.util.*;
public class PQ {
    public static void main(String[] args) {
        PriorityQueue<String> pq = new PriorityQueue<String>();
        pq.add("carrot");
        pq.add("apple");
        pq.add("banana");
        System.out.println(pq.poll() + ":" + pq.peek());
    }
}
```

What is the result?

- A. apple:apple
- B. carrot:apple

C. apple:banana

D. banana:apple

E. carrot:carrot

F. carrot:banana

32. Given:

```
import java.util.*;
public class WrappedString {
    private String s;
    public WrappedString(String s) { this.s = s; }
    public static void main(String[] args) {
        HashSet<Object> hs = new HashSet<Object>();
        WrappedString ws1 = new WrappedString("aardvark");
        WrappedString ws2 = new WrappedString("aardvark");
        String s1 = new String("aardvark");
        String s2 = new String("aardvark");
        hs.add(ws1); hs.add(ws2); hs.add(s1); hs.add(s2);
        System.out.println(hs.size()); } }
```

What is the result?

A. 0

B. 1

C. 2

D. 3

E. 4

F. Compilation fails.

G. An exception is thrown at runtime.

33. import java.util.*;

```
class KeyMaster {
    public int i;
    public KeyMaster(int i) { this.i = i; }
    public boolean equals(Object o) { return i == ((KeyMaster)o).i; }
    public int hashCode() { return i; }
}
public class MapIt {
```

```

public static void main(String[] args) {
    Set<KeyMaster> set = new HashSet<KeyMaster>();
    KeyMaster k1 = new KeyMaster(1);
    KeyMaster k2 = new KeyMaster(2);
    set.add(k1); set.add(k1);
    set.add(k2); set.add(k2);
    System.out.print(set.size() + ":");
    k2.i = 1;
    System.out.print(set.size() + ":");
    set.remove(k1);
    System.out.print(set.size() + ":");
    set.remove(k2);
    System.out.print(set.size());
}
}

```

What is the result?

- A. 4:4:2:2
- B. 4:4:3:2
- C. 2:2:1:0
- D. 2:2:0:0
- E. 2:1:0:0
- F. 2:2:1:1
- G. 4:3:2:1

34. Given:

```

import java.util.*;
public class LetterASort {
    public static void main(String[] args) {
        ArrayList<String> strings = new ArrayList<String>();
        strings.add('aAaA");
        strings.add("AaA");
        strings.add('aAa");
        strings.add("AAaa");
        Collections.sort(strings);
        for (String s: strings) { System.out.print(s + " "); }
    }
}

```

```
}  
}
```

What is the result?

- A. Compilation fails.
- B. aAaA aAa AAaa AaA
- C. AAaa AaA aAa aAaA
- D. AaA AAaa aAaA aAa
- E. aAa AaA aAaA AAaa
- F. An exception is thrown at runtime.

36. Given:

```
11. public static void append(List list) { list.add("0042"); }  
12. public static void main(String[] args) {  
13. List<Integer> intList = new ArrayList<Integer>();  
14. append(intList);  
15. System.out.println(intList.get(0));  
16. }
```

What is the result?

- A. 42
- B. 0042
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 13.
- E. Compilation fails because of an error in line 14.

38. Given:

```
public void addStrings(List list)  
{  
list.add("foo");  
list.add("bar");  
}
```

What must you change in this method to compile without warnings?

- A. add this code after line 11:
list = (List<String>) list;
- B. change lines 12 and 13 to:

```
list.add<String>("foo");
```

```
list.add<String>("bar");
```

C. change the method signature on line 11 to:

```
public void addStrings(List<? extends String> list) {
```

D. change the method signature on line 11 to:

```
public void addStrings(List<? super String> list) {
```

E. No changes are necessary. This method compiles without warnings.

39. Given:

```
import java.util.*;
```

```
public class Test {
```

```
    public static void main(String[] args) {
```

```
        List<String> strings = new ArrayList<String>();
```

```
        // insert code here
```

```
    }
```

```
}
```

Which four, inserted at line 5, will allow compilation to succeed?

(Choose four.)

A. `String s = strings.get(0);`

B. `Iterator i1 = strings.iterator();`

C. `String[] array1 = strings.toArray();`

D. `Iterator<String> i2 = strings.iterator();`

E. `String[] array2 = strings.toArray(new String[1]);`

F. `Iterator<String> i3 = strings.iterator<String>();`

40. Collection can be used to store primitive data

A. True

B. False

42. ArrayList can be traversed using (Select two options)

A. foreach

B. for loop

C. While loop

D. Indexes

43. select a valid syntax for creating a HashSet

- A. Set setName=new Set();
- B. **HashSet hashSet = new HashSet();**
- C. Set setName = new HashSet();
- D. Set setName = new Set[];

44. Which is not a HashSet method

- A. boolean add(Object element)
- B. Iterator<E> iterator()
- C. int size()
- D. **Object[] toArray()**

45. Which of the following is not an ArrayList method (select two)

- A. void add(int index,Object element)
- B. boolean addAll(int index,Collection c)
- C. **boolean add(int index,Object element)**
- D. **void addAll(int index,Collection c)**

46. Which is the valid syntax of for-each loop

- A. **for (Object o : collection)**
System.out.println(o);
- B. for (Object o..collection)
System.out.println(o);
- C. for (Object o, collection)
System.out.println(o);
- D. for (Object o;collection)

System.out.println(o);

47. You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

A. java.util.Map

B. java.util.Set

C. java.util.List

D. java.util.Collection

48. Which is not the sub-interface of public interface Collection{}

A. BeanContext

B. BeanContextServices

C. AbstractSet

D. SortedSet

49. toArray() method returns

A. String

B. Object[]

C. boolean

D. int

50. Iterator iterator() method returns

A. All the collection elements contained in a specific Collection

B. An array containing all the elements in the collection

C. The total number of elements in the collection

D. An iterator over the elements in the collection

1- What is abbreviation of jaxp?

Java api for xml processing

2- Do we have remove attribute in enumeration?

yes

3- Which method of jsp can be overridden?

a- _jspService() b- _jspInit() c- jspDestroy() Ans:a

4- Which is a w3 standard?

Ans:DOM

5- Which has better performance joins or subqueries?

Ans:joins

6- Which text is not parsed in xml?

Ans:CDATA

8-Does HTML contain program logic?

Ans : NO.

7- select (2+3*4/2-5) from dual; ans:3

10- String s1=new String("abc");
String s2=new String("abc");
System.out.println(s1.compareTo(s2)); ? ans:0

11- StringBuffer i=new StringBuffer("welcome")
StringBuffer j=new SrtingBuffer("welcome")
If(i.equals(j))
Sop("i equals j");
If(i.equals(i))
Sop("i equals i"); ans:I equals i

12- Integer a=new Integer(2);
Integer b=new Integer(2);
System.out.println(a==b); ? ans:false

13- httpServletRequest is _____ a) HttpRequestsub interface)it's not a sub interface c)HttpServlet
ans:c

15- Jsp after processing what will it return to client a)jsp b)html c)source servlet d)compiled servlet
ans:d

16- Many users accesssing lots of tables each using more than 100 lines of code.

What is the best option?

- 1.View
- 2.Index
- 3.Stored Procedure ans:2

18- try{
int i=10;
int j=i/0;
return;
}
catch()
{
Sop("welcome");
}
SOP(j);
What happens?
1.prints welcome
2.Runtime-error
3.Compilation error ans:3

20- how to divide pa page into two rows?

a)rowspan b) colspan c)rows="50%50%" d)cols="50%50%" **ans:c**

21- why expression language is used in JSP page? **Ans:c**

a)write java code b)import files c)print statements d)declare variables

22- how to disable all triggers?**ans: alter table <table-name> disable all triggers**

23- form action to wat attributes will be redirected to next page.. **ans:d**

a)get

b)post

c)the parameter is added in httprequest

d)the parameter along with submit is added to request

24- which creates container of webpage **ans:1**

i)DIV ii)Span

26- whether we have to specify datatype in java Script? **Ans: not required**

27- <p:data>

<%=new Date()%>

<p:data/> **ans:c**

What is the body of the custom tag?

a) Scriptless b)expression language c)JSP

28- Filters can generate auto-response : true/False? **Ans:true**

29-JDBC statements are included in which package? **Ans:java.sql.***

30-Which reference object in jsp is used in Http servlet Response

a)session

b)context

c)request

d)response **ans:d**

31- how to import a package into JSP? **Ans: a**

a) < @ page import="java.util.*;>

- b) < @include import="java.util.*">
- c) < @import="java.util.*";>

32- line 1 : String string1 =new String("Hi");

line 2: String string2 =String1;

line 3: String1= new String("hello");

line 4: String2= new String("world");

In which line garbage collection takes place? **Ans:line4**

33- which is a build tool? **Ans:a**

- a) ANT b)pmd c)cmd

1.A package is a collection of

- a) Classes
- b) Interfaces
- c) Editing tools
- d) Classes & interfaces**

2)Which of the following classes is used to perform basic console input/output?

- a) System**
- b) Security manager
- c) Math
- d) Runtime

3) Which of the following is true about this variable declaration?

private static int i = 3;

- a) The value of i is shared among all instances of the class in which it is declared
- b) i may only be accessed within the class in which it is declared.
- c) i may only be updated by a static method
- d) both a & b**

```
4). class simple{  
    public static void main(String args[])  
    {  
        int a[10];  
        System.in.read(a[1]);  
    }  
}
```

What happens when the above code is processed?

- a) the second element of the array is read in
- b) there will be a compile time error**
- c) the first element of the array is read in
- d) there will be a runtime error

5). Which modifier or modifiers should be used to denote a variable that should not be written out as a part of its classes, persistent states?

- a) private
- b) protected
- c) transient**
- d) private transient.

6) How can you force garbage collection of an object?

- a) You cannot force garbage collection
- b) call system.gc()**
- c) call system.gc(), passing in a reference to the object to be garbage collected
- d) set all references to the object to new values (null for example)

7). Which of the following statements are true?

1. We cannot use abstract classes to instantiate objects directly.
2. The abstract method of an abstract class must be defined in its subclass

3. We cannot declare abstract constructors

4. We may declare abstract static methods

a) 1 is true

b) 2 is true

c) 1 & 2 are true

d) 1,2 & 3 are true

8). A catch clause may catch exceptions of which type?

a) Throwable

b) Error type

c) Exception type

d) All the above

9). Which exception is thrown by the read() method of InputStream Class?

a) IOException

b) ReadException

c) FileNotFoundException

d) Exception

10)What java statement is used to completely abort the execution of a loop

a) Continue

b) goto

c) exit

d) break

interface i

{

void show();

```
        void set();  
        void just();  
    }  
    class x implements i  
    {  
        public void set()  
        {  
        }  
        public void just()  
        {  
        }  
    }
```

what happens when above code is processed?

- a) no output
- b) runtime error
- c) compilation error
- d) none of the above

2) A static method can be accessed by

- a) Another static method only
- b) By static and instance methods
- c) Global Java functions
- d) Cannot be accessed at all

3). The following is not implemented in Java

- a) Method overloading
- b) Method overriding
- c) Operator overloading

4) Arrays in Java are

- a) Homogenous and of fixed size
- b) Growing size and heterogeneous
- c) Homogenous but is on growing size
- d) None of the above

5) The Stream which understands primitive types for input is

- a) DataOutputStream
- b) FileInputStream
- c) FileOutputStream

d) DataInputStream

6) When we see a 'catch' block in Java, it is compulsory to have

- a) finally block
- b) throws block
- c) try block

d) Not to have any compulsory block

7). The finally block in Exception handling of Java is

- a) Mandatory and guaranteed execution code
- b) Optional but guaranteed execution code

- c) Not to be used for suction in classes
- d) Not a facility at all.

8). An interface differs from a class because

- a) Class always has code, interface may have code
- b) Class is meant for instantiation and extension, interface is meant for implementation and declaration
- c) Class is for runtime, Interface is only for Design Time
- d) Instance methods can be overridden in classes but not in interfaces.

9)Default access specifier for a class in Java is

a.Public

b.Private

c.Friendly

d.Protected

10)A final class can be inherited (T/F) false

1)Which Class is the superclass of all Java classes

a) Class

b) Object

c) String

d) Super

2)._____ is the modifier is used to avoid a class to be inherited

a) abstract

b) final

c) static

d) none of the above.

3)Which of the following is the operator used to generate an exception programmatically

a) throws

b) throw

c) catch

d) try

4). In a pure java class the method is Static block is called before the main() method

a) True

b) False

c) Ignore

d) Ignore

5). _____ is the Root Class of all Exception classes

a) Exception

b) Error

c) Throws

d) Throwable

6)What is the modifier that for a method, so that only one thread can access it at a time, in a multi-threading context

a) Final

b) Synchronized

c) Abstract

d) Static

7)To implement Runnable, a class needs to implement the method

a) run()

b) CreateThread()

c) main()

d) None of the above

8)To implement JDBC in your program, you must import

a) java.awt package

b) java.applet package

c) java.sql package

d) java.net package

9)Integer is a _____

a) Keyword

b) Wrapper Class

c) Data Type

d) Constructor

10). Commit() and RollBack() are methods belonging to which of the following classes?

a) Driver

b) Connection

c) Statement

d) ResultSet

1)What keyword is used to prevent an object from being serialized?

A.private

B.volatile

C.protected

D.transient

E.None of the above.

2)Select the order of access modifiers from least restrictive to most restrictive.

A.public,private,protected, default

B.default,protected,private,public

C.public, default,protected,private

D.default,public,protected,private

E.public,protected, default,private

3).Which access modifier allows you to access method calls in libraries not created in Java?

A public

B. static

C. native

D. transient

E. volatile

4) The keyword extends refers to what type of relationship?

A. "is a"

B. "has a"

C. "was a"

D. "will be a"

E. None of the above.

5) Given the following code, what will be the outcome?

```
public class Funcs extends java.lang.Math {  
    public int add(int x, int y) {  
        return x + y;  
    }  
    public int sub(int x, int y) {  
        return x - y;  
    }  
    public static void main(String [] a) {  
  
        Funcs f = new Funcs();  
  
        System.out.println("" + f.add(1, 2));  
  
    }  
  
}
```

A. The code compiles but does not output anything.

B. "3" is printed out to the console.

C. The code does not compile.

D. None of the above.

6) What variables are substitute in java for the global variables

a) Instance variables

b) static variables

c) public variables

d) final variables

7) A _____ is a part of JVM that loads all classes that are required for the execution of the java program.

a) JRE

b) bytecode loader

c) class verifier

d) classloader

8). Which one of the following interface is used to call a stored procedure from java

a) StoredCall

b) CallProcedure

c) CallableStatement

d) None of the above

9) From OO point of view which of the following is better for creating a thread

- a) Instantiate Thread class
- b) extend from Thread class
- c) extend from Runnable
- d) implement Runnable

10)forName() method of the class Class is

- a) exactly like import statement
- b) is used to load the class (dynamically)at runtime
- c) finds the name of the class given the .class file
- d) all of the above

1. Art of organizing, controlling and revising the developers moduel is –SCM
2. Error and Exception is a subclass- Throwable
3. Valid xml discriptors-sql,formatter,core
4. JDBC connection what are the classes- java.sql,javax.sql
5. Importing a tag library file in jsp- <@taglib >
6. To correct a scenario Serilizable.
7. Scenario on Jsp include-<@include>
8. Interfarce can have only –public,static,final and not private,native
9. Declaration tag should be <%! % >
10. Parser without modifying the content is –SAX parser
11. XML can be transformed by – check it later
12. How call a servlet from a form- action=path of servlet/servletname
13. Int i=1;

```

If(i>0)
l=3;
Switch(i){
Case 1:
Case 2:
Case 0:
Break;
Case 3: s.op.(3);
Default: s.o.p(4)
Break;

```

Ans-3,4

14. 1.Jsp is text file with static and jsp tage

- 2.Jsp is for presentation logic and servlet for BO- both are true
15. 1.Tld is a xml with description of entire library and tags
2. didn't remember – both are true
16. There should be atleast one element –ans:<!Element elemen(elment-content+)>
17. Request object is implicit in- ans:HttpServletRequest
18. HttpSession implicit object in jsp- ans: session
19. where to declare a object to use in entire session-ans: session.setAttribute()
20. how to remove a attribute-ans: removeAttribute(String name)
21. In Expression language, how get a parameter name userId: ans:\${param.userId}
22. int i=10;
- ```

 if(((i++)>12)&&(++i<15)){
 s.o.p(i);
 }
 else s.o.p(i);

```
- ans-11
23. Best practices for Collection- use addAll() for copying, use generic types
24. Return type of Iterator's next() method is – Object
25. Performing specific styles on set of page elements is done by-Div
26. scenario for updating customer phone,address- create a view
27. when updating view should reflect into original db automatically- trigger
28. What are filter attributes are-<init>,<filter-class>,<context>,<config>,<name>
29. how to call a stored procedure of oracle database by JDBC - ans: callable Statement
30. what are not attributes of meta tag- htt-equiv,value,name,content- ans: value
31. (Scenario) what exception raised when number divided by zero: ans: divide zero exception(none of above)
32. Need of alt attribute in img tag- ans: if image is not displayed alt tag value will get displayed
34. which are synchronized- Hasttable,hashmap,arraylist,vector-ans: Hash table,vector
35. Pl/Sql –ans: plsql block can be anonymous&named, plsql block have declare&begin&exception



36. tools used for testing – **ans: Junit,emma**

37. Rais\_application\_error- **ans: complies correctly**

38. Can we use select statement with max, min in updatebefore trigger- **ans: trigger fails.**

39. `<%!java.util.Date date=new DATE() %>`

`<%=date.getHours()%>: <%=date.getMinutes()%>:<%=date.getSeconds()%>`

**Ans: time in hh:mm:ss format**

40. how use variable all servlets& jsp pages- **ans: `getServletContext().setAttribute()`,  
`request.getSession().setAttribute()`**

41. In xml how to specify the attribute order- **ans: `<xs:sequence>`**

42. In outer joins result will include all rows of first table and not second tables rows which fails condition- **ans: true**

43. Join performce better than sub-query- **ans: true;**

44. HttpServletRequest is sub interface of- **ServletRequest**

46. super class a protected method and child class overriding the method, what should be the access specifier- **ans: protected or default.**

47. Valid package name-**ans: `com.org.examle`, `home_test`, `pack123`**