

1. Which is the correct HTML for adding a background color?
  - a) `<body bgcolor="yellow">`
  - b) `<background> yellow</background>`
  - c) `<body color="yellow">`
  - d) `<body color="yellow">`
2. What is the correct HTML for creating a hyperlink?
  - a) `<a url=" http://www.w3schools.com">W3Schools.com</a >`
  - b) `<a name=" http://www.w3schools.com"> W3Schools.com</a>`
  - c) `<a> http://www.w3schools.com</a>`
  - d) `<a href="http://www.w3schools.com">W3Schools</a >`
3. \_\_\_\_\_ tag displays the text in a fixed - width font and retains the formatting of the original text (i.e. spaces and line - breaks).
  - a) `<format>`
  - b) `<pre>`
  - c) `<post>`
4. The content of which of the following tag(s) will not be displayed anywhere on the page?
  - a) Tables
  - b) Head
  - c) Body
  - d) Title
5. What attribute is added to the `<img>` tag when creating a client \_\_\_\_\_ -side imagemap?
  - a) MAP
  - b) USEMAP
  - c) IMGMAP
  - d) None of the above
6. Which is the correct place in an HTML document to refer to an external style sheet?
  - a) At the end of the document
  - b) In the `<body>` section
  - c) At the top of the document
  - d) In the `<head>` section
7. What is the correct CSS syntax for making all the `<p>` elements bold?
  - a) `<p style="font -size:bold">`
  - b) `p {text -size:bold}`
  - c) `p {font -weight:bold}`
  - d) `<p style="text -size:bold">`
8. Which of the following are capabilities of functions in JavaScript?
  - a) Return a value
  - b) Accept parameters and Return a value
  - c) Accept parameters
  - d) All of the above

9. The syntax of capture events method for document object is \_\_\_\_\_
- a) captureEvents()
  - b) captureEvents(args eventType)
  - c) captureEvents(eventType)
10. Which of the following can't be done with client -side JavaScript?
- a) Validating a form
  - b) Sending a form's contents by email
  - c) Storing the form's contents to a database file on the server
  - d) None of the above
11. How do you assign object properties?
- a) obj["age"] = 17
  - b) obj.age == 17
  - c) obj.age = 17
  - d) obj.age != 17
12. The syntax of close() method for document object is \_\_\_\_\_
- a) close(doc)
  - b) close(object)
  - c) close(val)
  - d) close()
13. How can we make attributes have multiple values?
- a) <myElement myAttribute="value1 value2"/>
  - b) <myElement myAttribute="value1" myAttribute="value2"/>
  - c) <myElement myAttribute="value1, value2"/>
  - d) Attributes cannot have multiple values
14. The \_\_\_\_ attribute type defines an attribute value as a unique identifier
- a) NAME
  - b) IDREF
  - c) ID
  - d) NMTOKEN
15. What is the correct syntax to define the XML version in XML document?
- a) <xml version="1.0" />
  - b) <?xml version="1.0"?>
  - c) <?xml version="1.0" />
  - d) None of the above
16. Namespace is defined as :
- a) <h:table xmlns:h="http://www.w3.org/TR/html4/"> </h:table>
  - b) <h:table> xmlns:h="http://www.w3.org/TR/html4/" </h:table>
  - c) <h:table xmlns:h="http://www.w3.org/TR/html4/"> </h:table>
  - d) None of the above

17.The syntax for parameter entity is

- a) <! ENTITY % NAME DEFINITION>
- b) < ENTITY % NAME DEFINITION>
- c) <! ENTITY \$ NAME DEFINITION>
- d) < ENTITY \$ NAME DEFINITION/>

18.Which statement is true for Overloaded methods?

- a) java class does not provide 2 methods with same name
- b) Java class does provide more than one methods with same name and signature
- c) java class does provide more than one methods with same name and different signature
- d) none of above

19.What will be the output of the following code:

```
abstract class shape
{
    abstract void draw();
}
class circle extends shape
{
    void draw(){
        System.out.println("Test");
    }
}
public static void main(String args[])
{
    shape c1 = new circle();
    c1.draw();
}
```

- a) code will provide compilation error
- b) code will get compiled but provies runtime error
- c) none of above

20.

```
class Uber {
    static int y = 2;
    Uber(int x) { this(); y = y * 2; }
    Uber() { y++; }
}
class Minor extends Uber {
    Minor() { super(y); y = y + 3; }
    public static void main(String [] args) {
        new Minor();
        System.out.println(y);
    } }
}
```

- a) 8
- b) 9
- c) Compilation fails.
- d) An exception is thrown.

21. java.lang.Void class is very well eligible for creating an instance of them.

- a) True
- b) False

22. How to declare a constant in java?

- a) using const keyword
- b) using finally keyword
- c) using final keyword
- d) none of above

23. A class can be declared as an abstract class by:

- a) class name preceding by abstract keyword
- b) having all methods as abstract
- c) having one or more methods as abstract
- d) none of above

24. Which declaration of the main method below would allow a class to be started as a standalone program. Select one correct answer

- a) public static int main(char args[])
- b) public static void main(String args[])
- c) public static void MAIN(String args[])
- d) public static void main(String args)

25. What will be the outcome of executing following code:

```
class MyClass
{
    public static void main(String []args)
    {
        int i = 100;
        byte b = i;
        System.out.println(b);
    }
}
```

- a) Will give compilation error
- b) Will compile and print 100
- c) Will throw an exception
- d) Will compile and print blank

26. What is the range of values that can be specified for an int?

- a) The range of values is compiler dependent
- b) -2 (raised to 31) - 1 to 2 (raised to 31)
- c) -2 (raised to 31) to 2 (raised to 31) - 1
- d) - 2 (raised to 15) to 2 (raised to 15) - 1

27. What are the ways to spot a non-abstract method?

- a) The method has semicolon after declaration
- b) The method is not marked abstract.
- c) The method has curly braces.
- d) The method has code between the curly braces.

28.

```
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() + " ");
}
```

What is the result?

- a) Compilation fails.
- b) one two three four
- c) four three two one
- d) four one three two

29. Which of the following statements are true?

- a) HashMap uses a hash table to implement Map interface.
- b) HashMap stores the key/value pairs.
- c) HashMap can not provide a sorted output.
- d) All of the above

30. Which Collection interface is used to represent elements in a sequence (in a particular order)

- a) Collection
- b) List
- c) Set
- d) Map

31. To store a key/value pair in a program \_\_\_\_\_ is used.

- a) TreeSet
- b) HashMap
- c) Array
- d) Vector

32.

```
import java.io.*;
class Directories {
static String [] dirs = {"dir1", "dir2"};
public static void main(String [] args) {
for (String d : dirs) {
// insert code 1 here
File file = new File(path, args[0]);
// insert code 2 here
}}}
```

The program is executed from a directory having 2 subdirectories, "dir1" and "dir2" by giving the command- java Directories file2.txt

On execution of this, the output is ""false true"

Note- "dir1" has a file-"file1.txt" and "dir2" has a file-"file2.txt".

33. Which set(s) of code fragments must be inserted for the program to the expected output?
- a) String path = d;  
System.out.print(file.exists() + " ");
  - b) String path = d;  
System.out.print(file.isFile() + " ");
  - c) String path = File.separator + d;  
System.out.print(file.exists() + " ");
  - d) String path = File.separator + d;  
System.out.print(file.isFile() + " ");
34. Which of these classes defined in java.io and used for file- handling are abstract?
- a) InputStream
  - b) PrintStream
  - c) Reader
  - d) FileInputStream
35. Which are the valid methods for reading bytes from an input stream?
- a) int read();
  - b) int read(byte[] b);
  - c) int read(byte[] b, int off, int len);
  - d) int read (byte[] b, int off);
36. DataOutputStream is a part of Character Stream.
- a) True
  - b) False
37. The priority to thread is given as they are created. There is no way the coder can alter the priority of Thread.
- a) True
  - b) False
38. In Java, Thread implementation can be done in following ways
- a) implementing Runnable Interface
  - b) extending Runnable interface
  - c) Extending Thread class
  - d) none of above
39. Which of the following statements are true?
- a) The wait method defined in the Thread class, can be used to convert a thread from Running state to Waiting state.
  - b) The wait(), notify(), and notifyAll() methods must be executed in synchronized code.
  - c) The notify() and notifyAll() methods can be used to signal and move waiting threads to ready-to-run state.
  - d) The Thread class is an abstract class.
40. Which of these are valid constructors of a Thread object.
- a) public Thread(Object obj)
  - b) public Thread(String name)
  - c) public Thread(Runnable trgt)
  - d) public Thread(ThreadGroup grp, Runnable trgt, String name)

41. Following components are primary components of Java Security Model
- Class Loader
  - Byte Code verifier
  - Security Engine
  - All of the above
42. `FilePermission perm = new java.io.FilePermission("/tmp/abc", "read");`  
What does the above statement perform?
- permits to read all the files in /tmp/abc directory
  - grants permission to access directory abc
  - has compilation error
  - produces a permission to read the file named "abc" in the /tmp directory:
43. How one can find the current IP address of one's machine?
- `InetAddress iAddr = new InetAddress();  
System.out.println("Local IP:" + iAddr.getLocalHost());`
  - `InetAddress iAddr = InetAddress.getLocalHost();  
System.out.println("Local IP:" + iAddr.getLocalAddress());`
  - `InetAddress iAddr = InetAddress.getLocalHost();  
System.out.println("Local IP:" + iAddr.getHostAddress());`
  - none of above
44. What does `getHostAddress()` method return?
- the raw IP address
  - IP address string in textual presentation
  - Object of `InetAddress`
  - Localhost address
45. How can you execute DML statements (i.e. insert, delete, update) in the database?
- By making use of the `InsertStatement`, `DeleteStatement` or `UpdateStatement` classes
  - By invoking the `execute(...)` or `executeUpdate(...)` method of a normal `Statement` object or a sub-interface object thereof
  - By invoking the `executeInsert(...)`, `executeDelete(...)` or `executeUpdate(...)` methods of the `DataModificationStatement` object
  - By making use of the `execute(...)` statement of the `DataModificationStatement` object
46. What does the below mentioned code do:
- ```
stmt = con.createStatement(
ResultSet.TYPE_SCROLL_INSENSITIVE, ResultSet.CONCUR_READ_ONLY);
rst = stmt.executeQuery(strSQL);
```
- Throws Compilation Error
  - No Statement or resultset is created
  - Creates statement and resultSet
  - None of above

47. When a connection is created it is in auto-commit mode. It means that every individual SQL statement is a transaction.

- a) True
- b) False

48. How can you load the JDBC drivers?

```
driver.load(" sun.jdbc.odbc.JdbcOdbcDriver ");  
Class.forName( " sun.jdbc.odbc.JdbcOdbcDriver" );  
Class.loadDriver(" sun.jdbc.odbc.JdbcOdbcDriver " );
```

49. Is the JDBC-ODBC Bridge multi-threaded?

- a) Yes
- b) No

50. Which of these statements are true?

- a) For each try block there must be at least one catch block defined.
- b) A try block may be followed by any number of finally blocks.
- c) A try block must be followed by at least one finally or catch block.
- d) If both catch and finally blocks are defined, catch block must precede the finally block.

51. When an error occurs within a method during execution of a program, the method creates an object and hands it off to the runtime system.

- a) True
- b) False

52.

```
import java.io.*;  
class Master {  
String doFileStuff() throws FileNotFoundException { return "a"; }  
}  
class Slave extends Master {  
public static void main(String[] args) {  
String s = null;  
try { s = new Slave().doFileStuff();  
} catch ( Exception x) {  
s = "b"; }  
System.out.println(s);  
}  
// insert code here  
}
```

53. Which, inserted independently at // insert code here, will compile, and produce the output b?

- a) String doFileStuff() { return "b"; }
- b) String doFileStuff() throws IOException { return "b"; }
- c) String doFileStuff() throws NumberFormatException { return "b"; }
- d) String doFileStuff() throws NumberFormatException,



54. What is the default MIME type format for the Message?

- a) txt/doc
- b) text/html
- c) text/plain
- d) text/txt

55. Which of the following are the search terms in JavaMail API to filter messages?

- a) Equals Term
- b) AND Term
- c) OR Term
- d) SENT DATE Term

56. `List<Object> listObj = new List<Object>(); Employee empObj = new Employee(); listObj.add(empObj);`

- a) This code fragment will not compile
- b) empObj will get added to the listObj
- c) RuntimeException as Employee is not of type Object
- d) Object can not be passed to the Collection

57. `List<?> l = new ArrayList<Integer>();`

- a) This code fragment will not compile
- b) No elements can be added to this List
- c) Anything besides Integer can be replaced on the right hand side
- d) All of the above

58.

```
public class Test<T>
{
    public static void main(String[] args) {
        new Test().meth(new Integer(42)); // 1
        new Test<String>().meth("hello"); // 2
        new Test<String>().meth(new Object()); // 3
    }
    public void meth(T type)
    { System.out.println(type); }
}
```

Choose the correct option for the above code

- a) Compilation error at line 1
- b) Compilation error at line 2
- c) Compilation error at line 3
- d) Compiles without error

59. What is the difference in using `request.getRequestDispatcher()` and `context.getRequestDispatcher()`?

- a) The first one requires absolute path and the second one requires relative path
- b) The first one requires relative path and the second one requires absolute path
- c) Both require relative paths
- d) Both require absolute paths

60. What is the need of super.init (config) in servlets ?

- a) To map the URL to the servlet name
- b) To be able to access the ServletConfig from our servlet
- c) To give the servlet its servlet properties
- d) None of the above

61. Consider the following class:

```
import javax.servlet.*;

public class MyListener implements ServletContextAttributeListener {
    public void attributeAdded(ServletContextAttributeEvent scab) {
        System.out.println("attribute added");
    }
    public void attributeRemoved(ServletContextAttributeEvent scab) {
        System.out.println("attribute removed");
    }
}
```

Which of the following statements about the above class is correct?

- a) This class will compile as is.
- b) This class will compile only if the attributeReplaced() method is added to it.
- c) This class will compile only if the attributeUpdated() method is added to it.
- d) This class will compile only if the attributeChanged() method is added to it.

62. What is true about client side refresh?

- a) The protocol refreshes the page in the browser automatically
- b) <META HTTP-EQUIV="Refresh" CONTENT="5; URL=/servlet/MyServlet/">
- c) Ways of refreshing the page
- d) None of the above

63. Which of the following statements are TRUE for the code given below?

```
int MAX_AGE;
Cookie cookie = new Cookie("user", user);
cookie.setMaxAge(MAX_AGE);
response.addCookie(cookie);
```

- a) If MAX\_AGE = 10 the cookie will expire after 10 seconds.
- b) If MAX\_AGE = 10 the cookie will expire after 600 seconds.
- c) If MAX\_AGE = 0 the cookie will be deleted.
- d) None of the Above

64. The following code snippet throws an IllegalStateException :

// Calling servlet:

```
public void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException{
    res.setContentType("text/html");
    PrintWriter out = res.getWriter();
    out.println("<HTML><BODY>");
    out.println("I am calling others!");
    RequestDispatcher rd= req.getRequestDispatcher("/MyServlet");
    rd.include(req, res);
    out.println("</BODY></HTML>");
    out.close();}
```

// Target servlet:

```
protected void doGet(HttpServletRequest req, HttpServletResponse res) throws  
ServletException, IOException{PrintWriter out = res.getWriter();  
    out.println("I am called by others!");
```

- a) True
- b) False

65. For a servlet to intercept protocol independent requests the below class must extend:

public class TestServlet extends \_\_\_\_\_ {.....}

- a) HttpServlet
- b) IPServlet
- c) GenericServlet
- d) TCPServlet

66. Servlet Context initialization parameters are specified in the \_\_\_\_\_ file

- a) struts-vars.xml
- b) web.xml
- c) struts-config.xml
- d) struts-validate.xml

67. Which of the following statements are correct JSP directives?

- a) `<% @ page %>`
- b) `<% ! taglib uri="http://www.abc.com/tags/util" prefix="util" %>`
- c) `<% include file="/copyright.html"%>`
- d) `<% $ page language="java" import="com.abc.*"%>`

68. Which HTTP method would you use to test the validity, accessibility, or modification time of a hyperlink?

- a) GET
- b) POST
- c) HEAD
- d) OPTIONS

69. Consider the JSP code

```
<html><head><% int k=0;%> </head> <body></body></html>
```

Which method of the generated servlet will contain the declaration of k?

This will not compile as you cannot put jsp code in the <head> element

- a) init()
- b) doGet()
- c) \_jspService()

70. Which of the following implicit variables should be used by a jsp page to access a resource and to forward a request to another jsp page?

- a) pageContext and config
- b) application and config
- c) config and pageContext
- d) application for both

71. Application Object is an object to share information among all users of a currently active application

- a) True
- b) False

72. Consider the following tag occurring in a JSP page: `<% @page import="java.util.*" %>`

Which of the following is the XML equivalent of the above tag?

- a) `<directive.page import="java.util.*"/>`
- b) `<page import="java.util.*"/>`
- c) `<%jsp:directive.page import="java.util.*"%>`
- d) `<jsp:directive.page import="java.util.*"/>`

73. Which of the given options are equivalent?

- a) `<% Hashtable ht = new Hashtable(); %>`
- b) `<%= Hashtable ht = new Hashtable() %>`
- c) `<jsp:scriptlet>Hashtable ht = new Hashtable();</jsp:scriptlet>`
- d) `<jsp:code>Hashtable ht = new Hashtable();</jsp:code>`

74. Which of the tag contains a code fragment valid in the page scripting language.

- a) `<% some_thing %>`
- b) `<%= some_thing %>`
- c) `<%! some_thing %>`
- d) `<%-- some_thing-- %>`

75. Your jsp page connects to the database and retrieves the data. It also formats the data and displays it to the client. Any of these operations can throw exceptions but you do not want to catch them all in this page and so you have written another jsp page that is meant to handle any kind of exceptions. How would you associate that error page named "error.jsp" with this page?

- a) Add `<% @errorPage="error.jsp"%>` in this page.
- b) Add `<% @page errorPage="error.jsp"%>` in this page.
- c) Add `<% @page isErrorPage="true"%>` in error.jsp.
- d) Add `<% @isErrorPage="true"%>` in error.jsp.

76. XML equivalent for JSP expression `<%= expression %>` is `<jsp:expression>expression</jsp:expression>`

- a) True
- b) False

77. Which are the Valid Statements?

- a) `public ActionErrors validate(ActionMapping actionMapping, HttpServletRequest request)`
- b) `public ActionErrors validate(ActionForm form ,HttpServletRequest request)`
- c) `public ActionErrors validate(ActionForm form ,HttpServletRequest request,HttpServletResponse response)`
- d) `public ActionErrors validate(ActionMapping actionMapping ,HttpServletRequest request,HttpServletResponse response)`

78. How you will make any Message Resources Definitions file available to the Struts Framework Environment?

Message Resources Definitions files can be added to the struts-config.xml file through `<message-resources />` tag.

- a) `<form- bean>` tag
- b) `<form- errors>`
- c) None

79. Here is action-mapping in the struts-config.xml

- a) `<action name="userForm" path="/login" input="/WEB-INF/jsp/user/home.jsp"`
- b) `<type="com.patni.timf.login.LoginAction" scope="request" parameter="action">`
- c) `<forward name="success" path="welcomedef" />`
- d) `<forward name="failure" path="logindef"/>`  
`</action>`

80. When we say `parameter="action"` from where is this parameter passed?

- a) The parameter is passed from the action-mapping to the Action Class
- b) The parameter is passed from the web.xml file to struts-config file.
- c) The parameter is passed from the JSP form tag `<>` to this file then to the Action Class.
- d) No parameter is actually passed.

81. Please select the Valid Statement(s).

- a) `ActionForward execute(ActionMapping mapping, ActionForm form, HttpServletRequest request, HttpServletResponse response)`
- b) `ActionForward execute(ActionMapping mapping, HttpServletRequest request, HttpServletResponse response, ActionForm form)`
- c) `ActionForward execute(ActionMapping mapping, ActionForm form, ServletRequest request, ServletResponse response)`
- d) `ActionForward execute(ActionMapping mapping, ActionForm form, HttpServletResponse response, HttpServletRequest request)`

82. Which are the valid Struts Configuration File Names?

- a) `struts-config.xml`
- b) `Struts-newconfig.xml`
- c) `newStruts-config.xml`
- d) `newStruts-newConfig.xml`

83. ActionForm maintains the \_\_\_\_\_ for web application.

- a) session state
- b) Application State
- c) Application Context
- d) None

84. `main()` method can be written for a Junit

- a) True
- b) False

85. How can a struts transaction token support be added in test cases

- a) Use `StrutsTestCase`
- b) With the help of `addRequestParameter`
- c) Can not be done
- d) Refactor the classes not to use transaction token

86. Please select the valid option

- a) `assertEquals(expected, actual)`
- b) `fail()`
- c) `assertNotSame(message, expected, actual)`
- d) All the above

87.The Junit framework automatically involves any \_\_\_\_\_ methods after each test is run.

- a) @assertEquals
- b) tearDown
- c) @After
- d) @Before

88.File tasks are :

- a) Copy
- b) mkdir
- c) removedir
- d) None of the above

89. You can modify the value of property tag in ANT script

- a) True
- b) False

90.WritterAppender does the following.

- a) Appends log events to a Writer
- b) Appends log events to InputStream
- c) Only A is correct.
- d) Both A & B are correct.

91. How can one control the maximum log file size

- a) log4j.appender.W.MaxFileSize=100KB
- b) log4j.appender.MaxFile=100KB
- c) log4j.appender.R.MaxData=100KB
- d) log4j.appender.R.MaxFileSize=100KB

92.Where do we deploy deployable files in Jboss?

- a) JBOSS\_HOME/server
- b) JBOSS\_HOME/server/default
- c) JBOSS\_HOME/server/default/deploy
- d) JBOSS\_HOME/default/deploy/server

93.Which file is used to specify the Jboss port?

- a) server.xml
- b) context.xml
- c) jboss - service.xml
- d) None of the above.