**Spring Pre-Test Paper**

**Employee Name: Employee Id:**

**Date of Test: Duration: 20 min**

**Objective Type questions: Max marks: 15**

1. Is the following statement true or false. The constructor of a class must not have a return type.
   1. true b. false
2. Which of these statements are true. Select the two correct answers.
   1. For each try block there must be at least one catch block defined.
   2. A try block may be followed by any number of finally blocks.
   3. A try block must be followed by at least one finally or catch block.
   4. If both catch and finally blocks are defined, catch block must precede the finally block.
3. Which of the following are correct. Select the one correct answer.
   1. An import statement, if defined, must always be the first non-comment statement of the file.
   2. private members are accessible to all classes in the same package.
   3. An abstract class can be declared as final.
   4. Local variables cannot be declared as static.
4. Which of these classes implement the Collection interface SortedMap. Select the one correct answers.
   1. HashMap d. Hashtable
   2. TreeMap e. HashSet
   3. TreeSet f. Vector

**5)** Which of the following are true about interfaces. Select the two correct answers.

1. Methods declared in interfaces are implicitly private.
2. Variables declared in interfaces are implicitly public, static, and final.
3. An interface can extend any number of interfaces.
4. The keyword implements indicate that an interface inherits from another.

**6)** Which of the following statements are true. Select the two correct answers.

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.

**7)** How can you ensure that the memory allocated by an object is freed. Select the one correct answer.

a) By invoking the free method on the object.

b) By calling system.gc() method.

c) By setting all references to the object to new values (say null).

d) Garbage collection cannot be forced. The programmer cannot force the JVM to free the memory used by an object.

**8)** A JSP page uses the java.util.ArrayList class many times. Instead of referring the class by its complete package name each time, we want to just use ArrayList. Which attribute of page directive must be specified to achieve this? Select the one correct answer.

a) Extends c) import

b) Include d) Package e) Classpath

**9)** Which of the following describes a fully encapsulated class?

a) Methods cannot be private

b) Variables cannot be private

c) The state of the object can only be modified through accessor method.

d) All variables are private.

e) All variables and all methods are private

**10)** Which of the following is a Java keyword. Select the four correct answers.

a) extern b) synchronized

c) volatile d) friend

e) friendly f) transient

g) this h) then

**11)** What JSP is basically used today

a) To make controller b)To make GUI

c) In writing business logic d) Deprecated

e) None

**12)** We must have configure and map all jsp files into web.xml

a) YES b)NO

**13)** Syntax of Scriptlet Element

a) <% code %> b) <@jsp code %>

c) <jsp: scriptlet code /> d) <%jsp code %>

**14)** Syntax of comments

a) <%-- comment --%> b) <!-- comment -->

c) <% // comment %> d) <% /\* comment \*/ %>

e) <% /\*\* comment \*/ %>

**15)** Choose correct scopes into JSP:-

a) page, request, session, application b) Page, response, session, application

c) Page, request, response, session d) None