### JAVA EXAMINATION

This examination is for student to assess his/her understanding of Java language and it's API. The exam contains 50 questions.

Find answers for these questions at <a href="http://www.srikanthtechnologies.com/books/javabook/answers.html">http://www.srikanthtechnologies.com/books/javabook/answers.html</a>.

```
Q1: Given the following program:
class Test {
  public static void main(String ...args) {
      // some code
      print();
      // some code
 // insert code here
Which of the following statements will complete the code?
A. public void print() { }
B. public abstract void print() { }
C. public static void print() { }
D. public final void print() { }
Q2: Which of the following statements is correct?
A. If A extends B then A is a class and B must be abstract class
B. If A extends B then A is a class and B must be interface
C. If A extends B then both A and B must be classes
D. If A extends B then both A and B may be classes or interfaces
Q3: Which of the following is NOT correct?
A. public abstract class Test { public void print() { } }
B. public abstract class Test { public abstract void print(); }
C. public abstract class Test { public final void print() {} }
D. public class Test { public abstract void print(); }
```

**Q4:** What is the output of the following program?

```
public class Test {
  int v = 10;
  public static void main(String [] args) {
     int v = 20;
     System.out.printf("%d", this.v);
A. 10
B. 20
C. Compilation Error
D. Runtime exception
Q5:
class A {
   public static void print() { System.out.printf("A"); }
class B extends A{
   public static void print() {
     System.out.printf("B");
public class Test {
 public static void main(String [] args) {
   A obj = new B();
   obj.print();
   A.print();
}
What is the output of the above program?
A. AA
B. BA
```

C. Compilation Error D. Runtime exception

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```
06:
class Employee { }
class Manager extends Employee { }
public class Test {
 public static void main(String args[]) {
 Employee e = new Manager();
 Manager m = new Manager();
 // insert code here
Which of the following lines can be inserted in the above code?
A. m = new Employee();
B. m = e;
C. m = (Manager) e;
D. All above lines can be inserted
Q7: Given the following class:
class Employee {
  String name;
  public Employee(String name) {
     this.name = name;
  }
Which of the following statements can create an object of Employee class
correctly?
A. Employee e;
B. Employee e= new Employee();
C. Employee e= new Employee("Roman");
```

D. None of the above can be used to create an object

```
08:
class Employee {
  String name;
  public Employee(String name) {
     this.name = name;
  }
public class Test {
  public static void main(String args[]) {
    Employee e1 = new Employee("Roman");
    Employee e2 = new Employee("Roman");
    System.out.print( e1 == e2 );
    System.out.print( e1.equals(e2));
What is the output of the above program?
A. false false
B. false true
C. true true
D. Compilation error as equals is not a method of Employee class
Q9:
class Product {
 String name = "Unknown";
 public void print() {
   System.out.println(name);
public class Test {
  public static void main(String args[]) {
     Product pl [] = new Product[3];
     pl[0].print();
  }
```

What is the output of the above program?

- A. Unknown
- B. Empty string followed by new line
- C. Compilation error at pl[0].print()
- D. Exception at runtime

#### Q10:

```
public class Test {
   public void main() {
      // code
   }
   public void main(String args[]) {
      // code
   }
}
```

What happens when you compile the above program?

- A. Compilation error as main method cannot be present more than once
- B. Compilation error as main is created without parameter
- C. Compilation error as main is defined as instance method
- D. No error program compiles

**Q11:** Which interface a class should implement to be used with Automatic Resource Management feature of Java 7.0?

- A. AutoCloseable
- B. CanClose
- C. Closeable
- D. Close

## Q12:

```
class A {
  final int v;
  public A() {
    v = 10;
  }
}
```

What happens when you compile and run the above program?

- A. Compilation error as final variable is not initialized at the time of declaration
- B. final variables cannot be initialized in constructor
- C. Program is compiled successfully
- D. Compiled successfully but throws exception at runtime

#### Q13:

```
class A {
  public static void main() {
    System.out.println("A");
  }
} class B extends A {
    public static void main(String args[]) {
        B o = new B();
        o.main();
    }
}
```

What is the output of the above program?

- A. A
- B. Compilation error as main() method is overridden in class B
- C. Compilation error as main() method is overloaded in class B
- D. Compilation error as main() in class A has no parameter

## **Q14:** Which of the following statements is NOT true?

- A. Subclass object can be assigned to superclass object reference
- B. Implementing class object can be assigned to object references of interface
- C. Superclass object can be assigned to object reference of subclass
- D. Subclass object can be assigned to superclass object reference only after type casting

Q15: Which of the following cases is not valid case for overloading?

- public void print() { }
   public void print(String msg) {}
- 2. public void print(String m, int c) {}
   public void print(int c, String m) {}
- 3. public int print() { }
   public void print(String msg) {}
- 4. public int print() {}
   public void print() {}
- A. 2
- B 2 and 4
- C. 2,3 and 4
- D. 4

**Q16:** Which of the following methods in Objects class is used to throw exception when the given object reference is null?

- A. isNull()
- B. hasNull()
- C. requireNotNull()
- D. requiredNull()

Q17: What is the difference between StringBuffer and StringBuilder?

- A. StringBuffer is mutable and StringBuilder is immutable
- B. StringBuffer is immutable and StringBuilder is mutable
- C. StringBuffer is synchronized and StringBuilder is not Synchronized
- D. StringBuffer is final and StringBuilder is not final

**Q18:** Which of the following classes was introduced in java.nio.files package in Java 7.0?

- A. PrintStream
- B. File
- C. Paths
- D. None of the above

Q19: Which of the access modifiers can be used with top-level class?

- A. Only public
- B. Either public or protected
- C. Either public or private or default
- D. Either public or default

Q20: Identify which statement does NOT compile successfully.

```
A. Integer i = 10;
B. Object o = 10;
C. int i = "10";
D. int i = new Integer(305);

Q21: Given the code below

class Test {
     public static void main(String args[]) {
          int a[] = new int[10];
          // insert code here
     }
}
```

Which of the following statements is used to sort array a?

- A. a.sort()
- B. Array.sort(a)
- C. Arrays.sort(a)
- D. java.util.Arrays.sort(a)

Q22: Identify the correct statement.

- A. Objects are passed by value and primitive types are passed by value
- B. Objects are passed by reference and primitive types are passed by value
- C. Objects are passed by value and primitive types are passed by reference
- D. Objects are passed by value and primitive types are passed by reference

**Q23:** Which of the following operations are automatic?

- A. Boxing
- B. Unboxing
- C. Both
- D. None

**Q24:** If a class is created with default access then from where this class can be accessed?

- A. It can be accessed from anywhere
- B. It can be accessed only from the package in which the class is created
- C. It can be accessed only from classes in any package with default access
- D. It can be accessed only from other classes of the same package with default access

**Q25:** In which order the class, package and import statements can appear?

```
A. class, import, package
B. import, package, class
C. package, class, import
D. package, import, class
Q26:
class Test {
       public static void main(String args[]) {
         try
               int v = Integer.parseInt(args[0]);
               return;
         catch (Exception ex) {
                 System.out.print("Error");
         finally {
                System.out.print("Finally");
         System.out.print("Over");
}
```

What will be the output of the above program when run as

#### java Test 100

- A. Finally
- B. Finally Over
- C. Over
- D. compilation error as return statement given in a function that returns void

Q27: Which of the following is correct about assertions?

- A. Assertions are enabled by default
- B. Assertions are used to handle runtime errors
- C. Assertions are implemented using assertion statement
- D. When an assertion fails it throws an error and not exception

**Q28:** Which of the following statements related to multithreading is correct?

- A. Thread class is abstract class
- B. To create a new thread extend Thread class and override start() method
- C. Thread class implements Runnable interface
- D. Thread class is serializable

```
Q29:
```

What is the output of the above program?

- A. Compilation error as you cannot create an object of Thread class
- B. Throws an exception when start() method is called
- C. Compiled and run successfully without any output
- D. Compiled and run successfully with message Implement run() method as run() method is not overridden

Q30: What is the super class of FileReader?

- A. BufferedReader
- B. InputStreamReader
- C. Reader
- D. FileInputStream

Q31: Which method in File class is used to delete file from file system? A. deleteFile() B. delete() C. remove() D. removeFile() **Q32:** is standard port number used for HTTP server. A. 25 B. 110 C. 80 D. 21 Q33: \_\_\_\_\_\_ is the return type of accept() method of ServerSocket class. A. Socket B. Object C. ServerSocket D. InputStream Q34: \_\_\_\_\_\_ is the method used to get stream to read data from a URI. A. getInputStream() B. openInputStream() C. openStream() D. getStream() Q35: Which of the following is the way to sort a collection of strings which may contain duplicate values?

- A. Use TreeSet
- B. Use ArrayList and call sort method
- C. Use LinkedList and call sort method
- D. Use Collections.sort() method

D. GroupLayout

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<b>Q36:</b> Which interface is used to change the order of sorting while using TreeSet class?
A. Sorter B. Comparator C. Order D. Map
<b>Q37:</b> headSet() is a method of?
A. Set B. Vector C. SortedList D. SortedSet
<b>Q38:</b> can be used to create an ArrayList which contains only objects of String class.
A. Set interface B. Generic C. Restrict interface D. It is not possible to do so
<b>Q39:</b> is the correct order of init(), start() and paint() methods of Applet class.
A. init(), paint(), start() B. init(), start(), paint() C. start(), init(), paint() D. start(), init()
Q40: Which of the following is NOT a layout manager?
A. AbsoluteLayout B. BorderLayout C. BoxLayout

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Q41: Which of the following are properties of GridBagConstraints?
A. gridx, gridy B. gridwidth, gridheight C. weightx, weighty D. All of the above
<b>Q42:</b> statement can be used to set Container <b>c</b> to absolute positioning.
A. c.setLayout(null); B. c.setLayout( new AbsoluteLayout()); C. c.setLayout( Layout.NULL); D. None of the above
<b>Q43:</b> Which of the following interfaces are implemented by WindowAdapter class?
A. WindowListener, WindowFocusListner B. WindowListener, WindowEvents C. WindowFocusListener, WindowEventsListener D. WindowStateListener, WindowEvents
<b>Q44:</b> is the parameter for mouseClicked() and mouseDragged() methods.
A. MouseEventArgs B. MouseEvent C. Object D. MouseAdapter
<b>Q45:</b> The interval for javax.swing.Timer is given in
A. Milliseconds B. Seconds C. Minutes

D. Hundredth of a second

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Q46: What is the class used to define a menu item?	
A. JMenu B. JMenuButton C. JMenuItem D. JItem	
Q47: class is used to display ready-made dialog	boxes.
A. JOptionPane B. JDialog C. JStandardDialog D. JMessageDialog	
Q48: JList can take data from one of the following.	
A. DataModel B. ArrayList C. int[] D. ListModel	
Q49: Which of the following is a feature of the swing com	ponents?
A. They support pluggable look & feel B. They are heavy weight C. They are available from Java 1.0 D. They do not support delegation event model	
<b>Q50:</b> is used to display open dialog box.	
A. JFileDialog	

- B. JFile
- C. JFileChooser
- D. JFileSelector