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 http://www.srikanthtechnologies.com/books/javabook2014/answers.html

```
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

Srikanth Technologies

```
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;
  }
}
class Test {
  public static void main(String args[]) {
    A o = new A();
  }
}
```

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

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:
```

```
class Test {
          public static void main(String args[]) {
                Thread t = new Thread();
                 t.start();
          }
}
```

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

C. openStream() D. getStream()

O30: 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:** method is used to create a stream from a collection of constants. A. Stream.get() B. Stream.of() C. Stream.parse() D. Stream.getInstance() 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 URL. A. getInputStream() B. openInputStream()

- C. Restrict interface
- D. It is not possible to do so

Q39: Which of the built-in functional interface is used as parameter for **filter()** method of **Stream**.

- A. Condition
- B. Consume
- C. Predicate
- D. BiConsumer

Q40: Which of the following methods of Map interface removes an element only when its value is same as specified value.

- A. remove(key)
- B. remove(key, value)
- C. removeIf(key, value)
- D. delete(key, value)

Q41: Method **walk()** is present in which of the following classes?

- A. Files
- B. Paths
- C. File
- D. Path

Q42: Which of the following is NOT true with an interface in Java 8?

- A. It can have only one abstract method
- B. It can have only one default method
- C. It can have static variables
- D. It can have instance variables

Q43: Assuming **a** is an array of strings, which of the following is correct statement?

- A. Stream s = Arrays.stream(a);
- B. Stream s = Arrays.getStream(a);
- C. Stream s = Arrays.toStream(a);
- D. Stream s = Stream.fromArray(a);

Q44: Which is true about a lambda expression?

- A. It can be used where an inner class is used
- B. It can be used where an anonymous inner class is used
- C. It can be used where the implementation of a functional interface is required
- D. It can be used where an interface with default method is required

Q45: Which is NOT correct lambda expression for Runnable interface? A. () -> System.out.println("Thread Code"); B. () -> MyClass::printMethod // void printMethod() is static method C. () -> { System.out.println("Thread Code"); } D. (v) -> System.out.println(v) _____ method is required to obtain a parallel stream from an 046: ArrayList? A. stream() B. parallelStream() C. getParallelStream() D. stream(true) **Q47:** is the abstract method of Supplier functional interface? A. process() B. accept() C. get() D. accept() **Q48:** Which of the following is true about lambda expression? A. Inside a lambda expression this reference points to outer class object B. Inside a lambda expression this reference points to inner class object C. There is no this reference in lambda D. Inside a lambda block, you cannot use this reference **Q49:** of the following is a terminal operation in a Stream? A. filter() B. distinct() C. skip() D. forEach()

Q50: _____ regular expression specifies 5 or more digits.

- A. $\d{5}$
- B. \d+ C. \d{5+}
- D. \d{5,}