

Trainee Evaluation JAVA Assessment - 2

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Time Duration: 1 Hours Total Marks _____

Note: Paper contain 30 Questions.

Q1. to Q26. Each question carries 1 mark.
Q27. to Q30. Each question carries 5 marks.

Q.1 On what basis is it determined, when a variable comes into existence in memory?
 (a) Data Type (b) Storage Class
 (c) Scope (d) All of the above X

Q.2 To access data members of a class, which of the following is used?
 (a) Dot operator (b) Arrow operator
 (c) Dot or arrow operator, as required (d) Dot, arrow, or direct call ✓

Q.3 Which member function is assumed to call first when there is a case of using abstract class?
 (a) Local function (b) Global function
 (c) Highest priority of function (d) Lowest priority of function ✓

Q.4 1. The size of the class is the largest size of the variable of the same class. What is the size of a class?
 Classes in the programming languages do not have any size
 2. Sum of the size of all the variables within a class.
 4. Sum of the size of all inherited variables along with the variables of the same class. X

Q.5 Which of the following class is known as the generic class?
 (a) Template class (b) Efficient code
 (c) Final class (d) Abstract class X

Q.6 Select the output of the below program:

```
public class threadExample extends Thread{
  String msg;
  threadExample(String s){
    msg=s;
    System.out.println("Hi");
  }
  public void run(){
    System.out.println(msg);
  }
}
```

- (6/50)
- public static void main(String[] args) {
 threadExample obj1=new threadExample("hello");
 threadExample obj2=new threadExample("world");
}
}
(a) Hi hello Hi world (b) Hi Hi
(c) Illegal Thread Exception (d) Error ✓
- Q.7 Future is a class/interface/abstract class/other?
 (a) Class (b) Interface
 (c) Abstract Class (d) Other ✓
- Q.8 What is valid about synchronized and java.util.concurrent.locks.ReentrantLock in thread concurrency in java
 (a) synchronized Does not provide any fair locks.
 (b) ReentrantLock provides fair lock
 (c) ReentrantLock provides getQueueLength() method to return number of threads that may be waiting to acquire this lock.
 (d) All X
- Q.9 When an expression consists of int, double, long, float, then the entire expression will get promoted into a data type that is:
 (a) float (b) double
 (c) int (d) long X
- Q.10 What will be the output of the following Java program?

```
class Output
{
  public static void main(String args[])
  {
    int p = 1;
    int q = 2;
    int r = 3;
    p |= 4;
    q >>= 1;
    r <<= 1;
    p ^= r;
    System.out.println(q + " " + q + " " + r);
  }
}
```

 436 X
 336 X
(b) 2 3 4 X
(c) 2 2 3 X 116
- Q.11 Out of these exceptions, which one is thrown by the compareTo() method that is defined in a double wrapper?
 (a) SystemException (b) ClassCastException
 (c) IOException (d) CastException X
- Q.12 Which method can be used to find whether lock is held by current thread?
 (a) findLockHold() (b) IsLockHold()
 (c) holdsLock() (d) lockHolds() X

Q.13 Out of these methods, which one makes the raw MIME formatted string?

- (a) (b) getString()
(c) parse()
(d) parseString()

X

Q.14 The remover() method throws which of these exceptions:

- (a) ObjectNotFoundException
(b) IllegalStateException
(c) IOException
(d) SystemException
E. All above

X

Q.15 Out of the following statements, which one is not true about the Java beans?

- (a) It extends the java.io.Serializable class
(b) It implements the java.io.Serializable interface
(c) It provides getter and setter methods for its properties
(d) It provides us with no argument constructor
E. None of these.

X

Q.16 Which method is used for notifying the observer about the change in the observed object?

- (a) notify()
(b) update()
(c) observed()
(d) check()
(e) All above

X

Q.17 Which statement about a valid .java file is true?

- (a) It can only contain one class declaration.
(b) It can contain one public class declaration and one public interface definition.
(c) It must define at least one public class.
(d) It may define at most one public class.

X

Q.18 What is the output of following program?

```
public class Test {  
    static int one = 10;  
    int two = 20;  
    public static void main(String []args) {  
        Test test = new Test();  
        int today = 20; two = 40;  
        System.out.println(today + test.two + test.one);  
    }  
}
```

(a) 70
(b) 50
X Syntax error
(d) Exception in main thread

X

Q.19 Which of the following declarations does not compile?

- (a) double num1, int num2 = 0;
(b) int num1, num2;
(c) int num1, num2 = 0;
(d) None of above.

X

Q.20 public static void main(String... args) {
 String chair, table = "metal";
 chair = chair + table;
 System.out.println(chair);

)
(a) metal
(b) metalmetal X
(c) nullmetal
(d) The code does not compile

X

Q.21 How many of the following methods compile?

```
public class Test {  
    public String convert(int value) {  
        return value.toString();  
    }  
    public String convert(Integer value) {  
        return value.toString();  
    }  
    public String convert(Object value) {  
        return value.toString();  
    }  
}  
public static void main(String... args) {  
    Test obj = new Test();  
    System.out.println(obj.convert(10));  
}
```

- (a) None
(b) One
(c) Two
(d) Three

✓

Q.22 What is true of the finalize() method?

- (a) It may be called zero or one times.
(b) It may be called zero or more times.
(c) It will be called exactly once.
(d) It may be called one or more times.

X

Q.23 How many of the String objects are eligible for garbage collection right before the end of the main method?

```
public static void main(String[] fruits) {  
    String fruit1 = new String("apple");  
    String fruit2 = new String("orange");  
    String fruit3 = new String("pear");  
    fruit3 = fruit1;  
    fruit2 = fruit3;  
    fruit1 = fruit2;  
}
```

- (a) One
(b) Two
(c) Three
(d) None

X

Q.24 What is the value of tip after executing the following code snippet?

```
int meal = 5;  
int tip = 2;  
int total = meal + (meal > 6 ? ++tip : -tip);  
(a)   1  
(b)   2  
(c)   3  
(d)   6
```

X

Q.25 Which method of the Class is used to determine the name of a class represented by the class object as a String?

- (a) getClass()
(b) intern()
(c) getName()
(d) toString()

✓

Q26. Which graph is used to check for deadlock in Java?

- (a) Deadlock graph
- (b) Time graph
- (c) Wait-for-graph
- (d) None of these

①
X

Q27 java program that counts the occurrences of each word in a string and prints out the words with duplicates.(if count of a word is greater than 1 which signifies that the word has duplicates in the string and also avoid printing visited word(d))

Q28. Java program to swap two strings without using a temporary variable.

Q29. How to find all the leaders in an integer array in java?(An element is leader if it is greater than all the elements to its right side and the rightmost element is always a leader. For example int the array {16, 17, 4, 3, 5, 2}, leaders are 17, 5 and 2.)

Q30 Pattern

1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1