<table>
<thead>
<tr>
<th>S. No</th>
<th>Question</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>What is the output for the below code?</td>
<td>&lt;pre&gt;0&lt;/pre&gt;</td>
<td>&lt;pre&gt;6&lt;/pre&gt;</td>
<td>Compilation fails due to an error on lines 3</td>
<td>Compilation fails due to an error on lines 4</td>
<td>D</td>
</tr>
</tbody>
</table>
| Given: | 1. public class StrBoo {  
| | 2. public static void main(String[] args) {  
| | 3. List lst = new ArrayList();  
| | 4. lst.add(new Integer(12).intValue());  
| | 5. lst.add(new String("foo"));  
| | 6. lst.add(new Boolean(true));  
| | 7. Arrays.sort(lst.toArray());  
| | 8. for (int i = 0; i < lst.size(); i++) {  
| | 9. System.out.print(lst.get(i).toString());  
| | 10. }  
| | 11. }  
| | 12. }  
| | What is result? | 12 foo true | 12 foo TRUE | Compilation fails. | throws java.lang.ClassCastException | D |

| Given: | 1. public class ExpTest {  
| | 2. public static void main(String[] args) {  
| | 3. try { testException(); }  
| | 4. catch (RuntimeException ex) {  
| | System.out.print("runtime "); }  
| | 5. System.out.print("end ");  
| | 6. }  
| | 7. static void testException() throws RuntimeException {  
| | System.out.print("testException ");  
| | 8. try {  
| | 9. System.out.print("testException ");  
| | 10. throw new RuntimeException();  
| | 11. }  
| | 12. catch (Exception ex) {  
| | System.out.print("Exception "); }  
| | 13. }  
<p>| | Compilation fails. | Compilation fails. | testException Exception end | testException Exception end | testException runtime end | C |</p>
<table>
<thead>
<tr>
<th></th>
<th>Given:</th>
<th>What is output?</th>
</tr>
</thead>
</table>
| 4 | public class SimpleDouble {  
|   | public static void main(String[] args) {  
|   | double d = 456.6537;  
|   | System.out.printf("|%7.2f| ", d);  
|   | System.out.printf("|%5.2f| ", d);  
|   | }  
|   | }<pre> | 456.66| 456.66</pre> | Compilation fails. |
| 5 | public class Test {  
|   | public static void main(String[] args) {  
|   | try {  
|   | } catch (NullPointerException e1) {  
|   | System.out.print("a");  
|   | } catch (Exception e2) {  
|   | System.out.print("b");  
|   | } finally {  
|   | System.out.print("c");  
|   | }  
|   | }<br> What is output? | unreachable catch block for NullPointerException. This exception is never thrown from the try statement body | c ab bc B |
|   | public class Num { int squares = 21; public static void main(String[] args) { new Num.go(); } void go() { incr(++squares); incr(++squares); System.out.println(squares); } void incr(int squares) { squares += 10; } </pre> | <pre>23</pre> | <pre>43</pre> | <pre>32</pre> | <pre>65</pre> | A |
|---|---|---|---|---|---|
| 6 | Which Raju class properly represents the relationship "Raju has a best friend who is a Rat"? | class Raju { private Rat; class Raju extends Rat { } } | B |
| 7 | What is the output for the below code? | one two three | one two | one | compiler error | A |
| 8 | public static void main(String[] args) { int i1=1; switch(i1){ case 1: System.out.println("one"); case 2: System.out.println("two"); case 3: System.out.println("three"); } } </pre> | | | | | A |
What is the output for the below code?

```java
public enum Tester {
    BREAKFAST(7, 30), LUNCH(12, 15), DINNER(19, 45);
    private int hh;
    private int mm;
    Tester(int hh, int mm) {
        assert (hh >= 0 && hh <= 23) : "Illegal hour."
            assert (mm >= 0 && mm <= 59) : "Illegal mins."
            this.hh = hh;
            this.mm = mm;
    }
    public int getHour() {
        return hh;
    }
    public int getMins() {
        return mm;
    }
    public static void main(String args[]) {
        7:30
        Compile Error - an enum cannot be instantiated using the new operator.
        12:50
        19:45
    }
```
What is the output for the below code?
<pre>
public class B {
    public String getCountryName(){
        return "USA";
    }
    public StringBuffer getCountryName(){
        StringBuffer sb = new StringBuffer();
        sb.append("UK");
        return sb;
    }
    public static void main(String[] args){
        B b = new B();
        System.out.println(b.getCountryName().toString());
    }
}</pre>

Compile with error  USA  UK  Runtime Exception  A
### Question 11

What is the output for the below code?

```java
public class A {
    public A() {
        System.out.println("A");
    }
}

public class Test {
    public static void main(String... args) throws Exception {
        A a = new A();
        ObjectOutputStream save = new ObjectOutputStream(new FileOutputStream("datafile"));
        save.writeObject(a);
        save.flush();
        ObjectInputStream restore = new ObjectInputStream(new FileInputStream("datafile"));
        A z = (A) restore.readObject();
    }
}
```

<table>
<thead>
<tr>
<th>A</th>
<th>A</th>
<th>None of the Above</th>
<th>C</th>
</tr>
</thead>
</table>

### Question 12

HashMap can be synchronized by ________?

```java
Map m = Collections.synchronizedMap();
```

<table>
<thead>
<tr>
<th>Map m = Collections.synchronizedMap();</th>
<th>Map m = Collections.synchronizedMap();</th>
<th>Map m = Collections.synchronizedMap(hashMap)</th>
<th>None of the Above</th>
<th>A</th>
</tr>
</thead>
</table>
What is the output for the below code?
<pre>
public class Test {
    public static void main(String... args) {
        Pattern p = Pattern.compile("a{1,3}b?c*");
        Matcher m = p.matcher("aaab");
        boolean b = m.matches();
        System.out.println(b);
    }
}
</pre>

<p>| | | | |</p>
<table>
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>True</td>
<td>compiler error</td>
<td>False</td>
</tr>
</tbody>
</table>
What is the output for the below code?

```java
public class Test {
    public static void main(String... args) {
        Console con = System.console();
        boolean auth = false;
        if (con != null) {
            int count = 0;
            do {
                String uname = con.readLine(null);
                do {
                    char[] pwd = con.readPassword("Enter %s's password: ", uname);
                    con.writer().write("\n\n");
                } while (!auth && ++count < 3);
            } while (true);
        }
    }
}
```

Null

Compile Error: No readPassword() method in Console class. NullPointerException

It works properly C
<p>| | | | | |</p>
<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>What is the output for the below code?</td>
<td>public class Test {&lt;br&gt;static { int a = 5; }&lt;br&gt;public static void main(String[] args){&lt;br&gt; System.out.println(a);&lt;br&gt;}}&lt;br&gt;</td>
<td>Compile with error</td>
<td>Runtime Exception</td>
</tr>
<tr>
<td>16</td>
<td>Which of the following modifier is used to prevent a property from being serialized?</td>
<td>strictfp</td>
<td>native</td>
<td>transient</td>
</tr>
<tr>
<td>17</td>
<td>A class or interface that operates on parameterized type is called?</td>
<td>TypeWrapper</td>
<td>Collection</td>
<td>Generic</td>
</tr>
<tr>
<td>18</td>
<td>_____ is a process by which the value of object is automatically extracted from a type wrapper?</td>
<td>Autoboxing</td>
<td>Auto-Unboxing</td>
<td>Encapsulation</td>
</tr>
<tr>
<td>19</td>
<td>In Java, each thread has its own ________, in main() method</td>
<td>Variables declared as final occupy</td>
<td>final variable must be initialized at</td>
<td>Arrays in java are implemented as an object.</td>
</tr>
<tr>
<td>20</td>
<td>Which of the following statements are incorrect?</td>
<td>class</td>
<td>object</td>
<td>method</td>
</tr>
<tr>
<td>21</td>
<td>Which of these cannot be declared static?</td>
<td>Platform independent code file created from Source file is understandable by</td>
<td>JRE</td>
<td>JVM</td>
</tr>
<tr>
<td>22</td>
<td>Who is called as father of Java Programming</td>
<td>Larry Page</td>
<td>Bjarne</td>
<td>James Gosling</td>
</tr>
<tr>
<td>23</td>
<td>In chained exception which method relates one exception with another exception?</td>
<td>getCause()</td>
<td>initCause()</td>
<td>setCause()</td>
</tr>
<tr>
<td>25</td>
<td>Interface can only have ...</td>
<td>Member elements and Methods.</td>
<td>Static Variables and Static Methods.</td>
<td>Static Final Variables and Instance Method</td>
</tr>
<tr>
<td>26</td>
<td>In what order the elements of a HashSet are</td>
<td>Random Order</td>
<td>Insertion</td>
<td>Natural Sorting</td>
</tr>
<tr>
<td>27</td>
<td>If we try to add duplicate key to the HashMap, What will happen?</td>
<td>It will throw an exception.</td>
<td>It won't add the new</td>
<td>The new element will replace the</td>
</tr>
</tbody>
</table>
What is the result?

```java
class Circus {
    public static void main(String[] args) {
        int x = 9;
        int y = 6;
        for(int z = 0; z < 6; z++, y--) {
            if(x > 2) x--;
            label:
            if(x > 5) {
                --x; 
                System.out.print(x + " ");
            } else {
                continue label;
            }
            x--; 
        }
    }
}
```

Compilation fails.
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
<th>Correct Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>How can we correct the above code?</td>
<td>no need of correction</td>
<td>B</td>
</tr>
<tr>
<td>The SQL keyword(s) ________ is used with</td>
<td>LIKE</td>
<td>A</td>
</tr>
<tr>
<td>Which of the following do you need to consider when you make a table in SQL?</td>
<td>Data types Primary keys Default values All of the above</td>
<td>D</td>
</tr>
<tr>
<td>Which statement in SQL allows us to change the definition of a table is?</td>
<td>ALTER UPDATE CREATE SELECT</td>
<td>A</td>
</tr>
<tr>
<td>Which statement explicitly names a constraint?</td>
<td>ALTER TABLE student_grades ADD FOREIGN KEY (student_id)</td>
<td>C</td>
</tr>
<tr>
<td>Which SELECT statement will the result ‘ello world’ from the string ‘Hello World’?</td>
<td>SELECT INITCAP(STR(‘Hello World’,1)) FROM dual;</td>
<td>D</td>
</tr>
</tbody>
</table>

```java
public class testparse {
    public static void format(String str) {
        try {
            float flt = Float.parseFloat(str);
        } catch (NumberFormatException nfe) {
            flt = 0;
        }
        System.out.println(flt);
    }

    public static void main(String[] args) {
        format("illegal");
    }
}
```
<table>
<thead>
<tr>
<th>Question</th>
<th>SQL Statement 1</th>
<th>SQL Statement 2</th>
<th>SQL Statement 3</th>
<th>SQL Statement 4</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>You need to display the last names of those employees who have the letter “A” as the second character in their names. Which SQL statement displays the required results?</td>
<td>SELECT last_name FROM EMP WHERE last_name LIKE '*A%';</td>
<td>SELECT last_name FROM EMP WHERE last_name LIKE ‘_A%’;</td>
<td>SELECT last_name FROM EMP WHERE last_name LIKE ‘*A%’;</td>
<td>A</td>
</tr>
<tr>
<td>37</td>
<td>You define a multiple-row subquery in the WHERE clause of an SQL query with a comparison operator &quot;=&quot;. What happens when the main query executes with the first value?</td>
<td>The main query executes with the first value</td>
<td>The main query executes with the last</td>
<td>The main query executes with all the values</td>
<td>D</td>
</tr>
<tr>
<td>38</td>
<td>What is true of using group functions on columns that contain NULL values?</td>
<td>Group functions on columns ignore NULL values.</td>
<td>Group functions on columns returning</td>
<td>Group functions on columns cannot be accurately used</td>
<td>A</td>
</tr>
<tr>
<td>39</td>
<td>Which best describes an inline view?</td>
<td>a schema object</td>
<td>a subquery that can another name for a view that</td>
<td>a subquery that is part of the</td>
<td>D</td>
</tr>
</tbody>
</table>
| 40       | Evaluate these two SQL statements: 
<pre>
SELECT last_name, salary, hire_date FROM EMPLOYEES ORDER BY salary DESC;
SELECT last_name, salary, hire_date FROM EMPLOYEES ORDER BY 2 DESC;
</pre>
What is true about them? | A | B | C | D | A |
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>Which of the following results are true, when a ROLLBACK statement is issued to the database, the transaction has ended? &lt;pre&gt;A. All work done by the transaction is undone, as if it hadn't been issued. B. Any locks acquired by the transaction are released. C. Both A &amp; B D. None of the above&lt;/pre&gt;</td>
</tr>
<tr>
<td>42</td>
<td>In which subprogram a RETURN statement does not return a value and so cannot contain an</td>
</tr>
<tr>
<td>43</td>
<td>When three or more AND and OR conditions are combined, it is easier to use the SQL keyword(s):</td>
</tr>
<tr>
<td>44</td>
<td>Find all the cities with temperature, condition and humidity whose humidity is in the range of 63 to 79</td>
</tr>
<tr>
<td>45</td>
<td>What is the meaning of LIKE '%0%0%' in a SQL statement</td>
</tr>
<tr>
<td>46</td>
<td>Which of the following statement is not correct about an Enumerations class?</td>
</tr>
<tr>
<td>47</td>
<td>Process of converting an object into a sequence of bytes which can be persisted is called?</td>
</tr>
<tr>
<td>48</td>
<td>How many String objects have been created? &lt;pre&gt;String x = new String(&quot;xyz&quot;); String y = &quot;abc&quot;; x = x + y;&lt;/pre&gt;</td>
</tr>
<tr>
<td></td>
<td>What will be the output of the program? &lt;br&gt;&lt;pre&gt;String a = &quot;ABCD&quot;;&lt;br&gt;String b = a.toLowerCase();&lt;br&gt;b.replace('a','d');&lt;br&gt;b.replace('b','c');&lt;br&gt;System.out.println(b);&lt;/pre&gt;</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>49</td>
<td>abcd</td>
</tr>
<tr>
<td></td>
<td>Which will contain the body of the thread?</td>
</tr>
</tbody>
</table>