Question 1

Not yet answered

Marked out of 1.00

Given:

```
3. public class Ebb {
4.   static int x = 7;
5.   public static void main(String[] args) {
6.    String s = "";
7.    for(int y = 0; y < 3; y++) {
8.      x++;
9.      switch(x) {
10.         case 8: s += "8 ";
11.         case 9: s += "9 ";
12.         case 10: { s+= "10 "; break; }
13.         default: s += "d ";
14.         case 13: s+= "13 ";
15.      }
16.   }
17.   System.out.println(s);
18.  }
19.  static { x++; }
20. }
```

What is the result?

Select one:

- **a. 9 10 d**
- **b. 8 9 10 9 10 10 d 13**
- **c. 8 9 10 d**
- **d. Compilation fails**
- **e. 9 10 10 d**
- **f. 8 9 10 10 d 13**
- **g. 9 10 10 d 13**

Question **2**

Not yet answered

Marked out of 1.00

Given:

```
3. class Infinity { }
4. public class Beyond extends Infinity {
5.   static Integer i;
6.   public static void main(String[] args) {
7.     int sw = (int)(Math.random() * 3);
8.     switch(sw) {
9.       case 0: {  for(int x = 10; x > 5; x++)
10.                   if(x > 10000000) x = 10;
11.                break; }
12.       case 1: {  int y = 7 * i;  break;  }
13.       case 2: {  Infinity inf = new Beyond();
14.                  Beyond b = (Beyond)inf;  }
15.    }
16.  }
17. }
```

And given that line 7 will assign the value 0, 1, or 2 to sw, which are true? (Choose all that apply.)

Select one or more:

- ☐ **a. A ClassCastException might be thrown**
- ☐ **b. The program might hang without ever completing**
- ☐ **c. A NullPointerException might be thrown**
- ☐ **d. The program will always complete without exception.**
- ☐ **e. A StackOverflowError might be thrown**
- ☐ **f. An IllegalStateException might be thrown**
- ☐ **g. Compilation fails**

Question **3**

Not yet answered

Marked out of 1.00

Given:

```
class CardBoard {
 Short story = 200;
 CardBoard go(CardBoard cb) {
   cb = null;
   return cb;
 }
 public static void main(String[] args) {
   CardBoard c1 = new CardBoard();
   CardBoard c2 = new CardBoard();
   CardBoard c3 = c1.go(c2);
   c1 = null;
   // do Stuff
} }
```

When // doStuff is reached, how many objects are eligible for GC?

Select one:

- **a. 2**
- **b. Compilation fails**
- **c. It is not possible to know**
- **d. 0**
- **e. An exception is thrown at runtime**
- **f. 1**

Question **4**

Not yet answered

Marked out of 1.00

Given:

```
class Bird {
 { System.out.print("b1 "); }
 public Bird() { System.out.print("b2 "); }
}
class Raptor extends Bird {
 static { System.out.print("r1 "); }
 public Raptor() { System.out.print("r2 "); }
 { System.out.print("r3 "); }
 static { System.out.print("r4 "); }
}
class Hawk extends Raptor {
 public static void main(String[] args) {
   System.out.print("pre ");
   new Hawk();
   System.out.println("hawk ");
 }
}
```

What is the result?

Select one:

- **a. pre b1 b2 r3 r2 hawk**
- **b. r1 r4 pre b1 b2 r3 r2 hawk**
- **c. pre r1 r4 b2 b1 r2 r3 hawk**
- **d. pre r1 r4 b1 b2 r3 r2 hawk**
- **e. Compilation fails**
- **f. r1 r4 pre b2 b1 r2 r3 hawk**
- **g. pre b2 b1 r2 r3 hawk r1 r4**
- **h. The order of output cannot be predicted**
- **i. pre b2 b1 r2 r3 hawk**

Question 5

Not yet answered

Marked out of 1.00

Given:

```
3. public class Bertha {
4.   static String s = "";
5.   public static void main(String[] args) {
6.     int x = 4; Boolean y = true; short[] sa = {1,2,3};
7.     doStuff(x, y);
8.     doStuff(x);
9.     doStuff(sa, sa);
10.      System.out.println(s);
11.  }
12.  static void doStuff(Object o)        { s += "1"; }
13.  static void doStuff(Object... o)     { s += "2"; }
14.  static void doStuff(Integer... i)    { s += "3"; }
15.  static void doStuff(Long L)          { s += "4"; }
16. }
```

What is the result?

Select one:

- **a. 232**
- **b. 312**
- **c. Compilation fails**
- **d. 234**
- **e. 334**
- **f. 332**
- **g. 212**

Question 6

Not yet answered

Marked out of 1.00

In student3 (Sno integer PRIMARY KEY), after inserting (101, 'Arun'),

what happens if you update Sno=101 to NULL?

Select one:

- **a. Update fails due to UNIQUE violation.**
- **b. Update succeeds but deletes the row.**
- **c. Update fails due to PRIMARY KEY's NOT NULL requirement.**
- **d. Update succeeds.**

Question 7

Not yet answered

Marked out of 1.00

In school(sno integer PRIMARY KEY) and library(sno integer PRIMARY KEY,FOREIGN KEY (sno) REFERENCES school(sno) ON UPDATE CASCADE),after inserting (102) in school and (102) in library, what happens if you update school.sno=102 to 103?

Select one:

- **a. Both school.sno and library.sno become 103.**
- **b. Update fails due to FOREIGN KEY.**
- **c. Update fails due to PRIMARY KEY conflict.**
- **d. school.sno becomes 103, library.sno remains 102.**

Question 8

Not yet answered

Marked out of 1.00

In student4, after inserting ('Ravi', 'Reddy', 40) and ('Kavita', 'Reddy', 40),

can you update lastname='Reddy' to NULL for all rows?

Select one:

- **a. Yes, because lastname isn't NOT NULL.**
- **b. No, because firstname must be unique.**
- **c. No, because composite PRIMARY KEY requires non-null values.**
- **d. Yes, but only for one row.**

Question 9

Not yet answered

Marked out of 1.00

In student4 (firstname varchar(10), lastname varchar(10), PRIMARY KEY(firstname, lastname)),after inserting ('Ravi', 'Reddy'), can you insert ('Ravi', NULL)?

Select one:

- **a. Yes, but only if firstname is unique.**
- **b. Yes, because lastname isn't explicitly NOT NULL.**
- **c. No, because firstname must be unique alone.**
- **d. No, because composite PRIMARY KEY requires non-null values.**

Question **10**

Not yet answered

Marked out of 1.00

In library (sno integer PRIMARY KEY,FOREIGN KEY (sno) REFERENCES school(sno) ON DELETE CASCADE),with school (sno=101) and library (sno=101), what happens if you delete sno=101 from school?

Select one:

- **a. Both school and library rows are deleted.**
- **b. Deletion fails due to PRIMARY KEY.**
- **c. Only school row is deleted, library remains.**
- **d. Deletion fails due to FOREIGN KEY.**

Question **11**

Not yet answered

Marked out of 1.00

How can array elements be accessed?

Select one:

- **a. sequentially**
- **b. randomly**
- **c. logarithmically**
- **d. exponentially**

Question **12**

Not yet answered

Marked out of 1.00

The prefix form of ((a/b)+c)-(d+(e*f)) is?

Select one:

- **a. + - / a b c + d * e f**
- **b. - / a b + c + d * e f**
- **c. - + / a b c + d * e f**
- **d. - + a / b c d + * e f**

Question **13**

Not yet answered

Marked out of 1.00

The data structure used to check whether an expression contains a balanced parenthesis is?

Select one:

- **a. Tree**
- **b. Queue**
- **c. Stack**
- **d. Array**

Question **14**

Not yet answered

Marked out of 1.00

What is the term used when several elements compete for the same location in the hash table?

Select one:

- **a. Diffusion**
- **b. Duplication**
- **c. Replication**
- **d. Collision**

Question **15**

Not yet answered

Marked out of 1.00

A full binary tree can be generated using

Select one:

- **a. in-order traversal**
- **b. post-order and pre-order traversal**
- **c. post-order traversal**
- **d. pre-order traversal**

Quiz Navigation

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