Given:

Make a note of any responses entered on this page in the last few minutes, then try to re-

connect.

Question

Once connection PHalio ତିଥିଲେ କୁ ଅଧି blished, your responses should be saved and this message will disappararint x = 7;

Not yet answered

Marked out of 1.00

```
5. public static void main(String[] args) {
     String s = "";
7.
     for(int y = 0; y < 3; y++) {
8.
      X++;
9.
      switch(x) {
         case 8: s += "8 ";
10.
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
O b. 8 9 10 10 d 13
o c. 9 10 10 d 13
Od. 8 9 10 9 10 10 d 13
O e. 8 9 10 d
Of. 9 10 10 d
```

g. Compilation fails

```
Network connection lost. (Autosave failed).
      Make a note of any responses entered on this page in the last few minutes, then try to re-
                   4. public class Beyond extends Infinity {
Once connection statified resistablished, your responses should be saved and this
message will disappent static void main(String[] args) {
1.00
                       int sw = (int)(Math.random() * 3);
                   7.
                   8.
                        switch(sw) {
                         case 0: { for(int x = 10; x > 5; x++)
                   9.
                   10.
                                  if(x > 10000000) x = 10;
                   11.
                                 break; }
                          case 1: { int y = 7 * i; break; }
                   12.
                   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 will always complete without exception.
                   c. An IllegalStateException might be thrown
                   d. The program might hang without ever completing

    □ e. A StackOverflowError might be thrown

✓ f. A NullPointerException might be thrown
```

☐ g. Compilation fails

Network connection lost. (Autosave failed). Question class CardBoard {
Make a note of any responses entered on this page in the last few minutes, then try to re-Short story = 200; connect. message will disappa्ता।; Marked out of 1.00 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: o a. Compilation fails b. 2 ○ c. An exception is thrown at runtime O d. 0 O e. 1 ∫ f. It is not possible to know

```
Network connection lost. (Autosave failed).
Question
      Make a note of any responses entered on this page in the last few minutes, then try to re-
                     { System.out.print("b1 "); }
      connect.
not yet Once connection has Bied โละ เราสามารถและ should be saved and this answered
message will disappear.
Marked out of
1.00
                    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 b2 b1 r2 r3 hawk r1 r4
                    b. r1 r4 pre b2 b1 r2 r3 hawk
                    c. pre r1 r4 b2 b1 r2 r3 hawk
                    d. Compilation fails
                    o e. pre b2 b1 r2 r3 hawk

    f. The order of output cannot be predicted

                    g. pre r1 r4 b1 b2 r3 r2 hawk
                    ○ h. pre b1 b2 r3 r2 hawk
```

i. r1 r4 pre b1 b2 r3 r2 hawk

Question Make a not connect.	onneixton lost. (Autosave failed). te of any responses entered on this page in the last few minutes, then try to re- 4. static String s = ""; ection Rublicetatic-void mainter, tybull responses should be saved and this
message v	vill disappa∢= 4; Boolean y = true; short[] sa = {1,2,3};
Marked out of 1.00	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. 234
	○ b. Compilation fails
	○ c. 312
	O d. 332
	○ e. 232
	● f. 212
	○ g. 334
Question	In student3 (Sno integer PRIMARY KEY), after inserting (101, 'Arun'),

6

Not yet answered

Marked out of 1.00

what happens if you update Sno=101 to NULL?

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

5

Not answered

Marked out of 1.00

```
Given:
3. public class Bertha {
4. static String s = "";
5. public static void main(String[] args) {
     int x = 4; Boolean y = true; short[] sa = \{1,2,3\};
6.
doStuff(x, y);
8. doStuff(x);
     doStuff(sa, sa);
9.
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. 234
b. Compilation fails
c. 312
d. 332
e. 232
```

Question



Complete

Mark 1.00 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:

f. 212

g. 334

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

7

Complete

Mark 1.00 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 PRIMARY KEY conflict.
- c. Update fails due to FOREIGN KEY.
- d. school.sno becomes 103, library.sno remains 102.

Question

8

Complete

Mark 1.00 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. No, because firstname must be unique.
- b. Yes, because lastname isn't NOT NULL.
- o. No, because composite PRIMARY KEY requires non-null values.
- d. Yes, but only for one row.

Question

9

Complete

Mark 1.00 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)?

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

10

Complete

Mark 1.00 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. Only school row is deleted, library remains.
- b. Deletion fails due to PRIMARY KEY.
- c. Deletion fails due to FOREIGN KEY.
- d. Both school and library rows are deleted.

Question

11

Complete

Mark 1.00 out of 1.00

How can array elements be accessed?

Select one:

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

Question

12

Complete

Mark 1.00 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. -/ab+c+d*ef
- c. + a / b c d + * e f
- d. + / a b c + d * e f

Question

13

Complete

Mark 1.00 out of 1.00

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

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

Complete

Mark 1.00 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

Complete

Mark 1.00 out of 1.00

A full binary tree can be generated using

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