Star	rted on	Tuesday, 27 May 2025, 3:21 PM			
	State	Finished			
Comple	eted on	Tuesday, 27 May 2025, 3:42 PM			
Time	e taken	21 mins 3 secs			
	Marks	18.00/20.00			
	Grade	90.00 out of 100.00			
Question 1					
Complete					
Mark 1.00 out of 1	1.00				
 a. Import java.jdbc.*; b. Import java.sql.jdbc.*; c. Import java.sql.*; d. Import java.sql.odbc.jdbc.*; 					
Question 2					
Complete					
Mark 1.00 out of 1.00					
What will be the output of the following Python code?					

```
    i = 1
    while True:
    if i%3 == 0:
    break
    print(i)
    i + = 1
    a. error
    b. 1 2 3
    c. 1 2
    d. none of the mentioned
```

od. Binary heap

```
{\tt Question}~3
Complete
Mark 1.00 out of 1.00
 What does the following print?
 const obj = {
   count: 10,
   inc: function () {
    setTimeout(() => {
     this.count++;
     console.log(this.count);
   }, 100);
  }
 };
 obj.inc();
  a. NaN
  Ob. undefined
  O c. 10
  d. 11
Question 4
Complete
Mark 0.00 out of 1.00
 Which is the simplest of all binary search trees?
  a. AVL tree
  Ob. Splay tree
  Oc. Treap
```

Question 5
Complete

Mark 1.00 out of 1.00

What will be the output of the following Python program?

def foo(x):

x[0] = ['def']

x[1] = ['abc']

return id(x)

q = ['abc', 'def']

print(id(q) == foo(q))

- a. True
- O b. Error
- oc. False
- Od. None

Question 6

Complete

Mark 1.00 out of 1.00

What will be the value of the following Python expression?

- 4 + 3 % 5
- a. 7
- O b. 2
- c. 1
- O d. 4

Question 7	
Complete	
Mark 1.00 out of 1.00	

Which of the below diagram is following AVL tree property?

- i. 8
 - /\
- 4 13
- / /
- 2 11
- /
- 10
- ii. 8
 - /\
 - 4 11
 - / / \
 - 2 10 13
- \bigcirc a. i is not a binary search tree
- \bigcirc b. both i and ii
- c. only i
- d. only ii

```
Question 8
Complete
Mark 1.00 out of 1.00
```

Following code snippet is the function to insert a string in a trie. Find the missing line.

Question 9	
Complete	
Mark 1.00 out of 1.00	

Which of the following should be used to find all the courses taught in the Fall 2009 semester but not in the Spring 2010 semester .

a. SELECT DISTINCT course_id
 FROM instructor
 WHERE name NOT IN ('Fall', 'Spring');
b. SELECT COUNT (DISTINCT ID)
 FROM takes
 WHERE (course id, sec id, semester, YEAR) IN (SELECT course id, sec id, semester, YEAR
 FROM teaches
 WHERE teaches.ID= 10101);
c. SELECT DISTINCT course id
 FROM SECTION
 WHERE semester = 'Fall' AND YEAR= 2009 AND
 course id NOT IN (SELECT course id
 FROM SECTION)

WHERE semester = 'Spring' AND YEAR= 2010);

WHERE semester = 'Spring' AND YEAR= 2010)

d. (SELECT course id FROM SECTION

Question 10
Complete

Mark 1.00 out of 1.00

Consider the classes shown below:

```
class A{
  public A() { }
  public A(int i) { System.out.println(i ); }
}
class B{
  static A s1 = new A(1);
  A a = new A(2);
  public static void main(String[] args){
    var b = new B();
    var a = new A(3);
  }
  static A s2 = new A(4);
}
```

Which is the correct sequence of the digits that will be printed when B is run?

- a. 1,4,2,3
- O b. 3, 1, 2, 4
- o. 2, 1, 4, 3
- Od. 2, 3, 1, 4
- e. 1,2,3,4

Question 11

Complete

Mark 1.00 out of 1.00

What are the values of the following Python expressions?

```
2**(3**2)
```

(2**3)**2

2**3**2

- a. 512, 64, 512
- O b. 64, 512, 64
- c. 64, 64, 64
- Od. 512, 512, 512

Question 12 Complete

Mark 1.00 out of 1.00

What will the following code output?

```
for (var i = 0; i < 3; i++) {
    setTimeout(() => console.log(i), 100);
}
```

- a. 0
 - 0
 - 0
- b. undefined undefined
 - undefined
- c. 0
 - 1
 - 2
- d. 3
 - 3
 - 3

Question 13

Complete

Mark 1.00 out of 1.00

The term _____ is used to refer to a row.

- O a. Attribute
- Ob. Instance
- c. Tuple
- Od. Field

```
Question 14
Complete
Mark 1.00 out of 1.00
```

```
What is the final output?
async function f1() {
 throw 'Error in f1';
async function f2() {
 try {
  await f1();
 } catch (e) {
  console.log('Caught: ', e);
 } finally {
  return 'Done';
 }
}
f2().then(console.log);
 a. Caught: Error in f1
        Done
 Ob. Error in f1
        Done
 \bigcirc c. Done
        Caught: Error in f1
 Od. Unhandled Promise Rejection
```

Done

Question 15

Complete

Mark 1.00 out of 1.00

What is the output of the Java program?

```
byte num = (byte)0b000_1000;
if(num >> 1 > 6)
{
    System.out.print(num);
}
else
{
    System.out.println(num>>1);
}
```

- O b. 8
- O c. 6
- d. 4

Question 16 Complete Mark 1.00 out of 1.00

```
Which code can be inserted to have the code print 2?
public class BirdSeed {
 private int numberBags;
 boolean call;
 public BirdSeed() {
  // LINE 1
  call = false;
  // LINE 2
 }
 public BirdSeed(int numberBags) {
  this.numberBags = numberBags;
 }
 public static void main(String[] args) {
  BirdSeed seed = new BirdSeed();
  System.out.println(seed.numberBags);
}}
 a. Replace line 2 with this(2);
 ○ b. Replace line 1 with new BirdSeed(2);
 c. Replace line 1 with this(2);
 ○ d. Replace line 2 with new BirdSeed(2);
 e. Replace line 2 with BirdSeed(2);
 f. Replace line 1 with BirdSeed(2);
```

Question 17

Complete

Mark 1.00 out of 1.00

The postfix form of the expression (A + B)*(C*D- E)*F / G is?

```
\bigcirc a. AB + CD* E – F **G /
```

○ b. AB + CDE * - * F *G /

○ c. AB+ CD*E – FG /**

d. AB + CD* E - *F *G /

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Question 18
Complete

Mark 1.00 out of 1.00

What is the output of the below Java code snippet on wrapper classes?

System.out.println(Byte.BYTES);

System.out.println(Character.BYTES);

System.out.println(Short.BYTES);

System.out.println(Integer.BYTES);

System.out.println(Long.BYTES);

System.out.println(Float.BYTES);

System.out.println(Double.BYTES);

- a. None of the above
- O b. 8
- c. 1
 - 2
 - 2
 - 4
 - 8
 - 4
 - 8
- O d. 1
 - 2
 - 4
 - 8
 - 16
 - 8 16

Question 19

Complete

Mark 1.00 out of 1.00

Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record?

- a. Super key
- Ob. Sub key
- c. Candidate key
- Od. Foreign key

```
Question 20
Complete
Mark 0.00 out of 1.00
 What is the output of this code?
 console.log('start');
 setTimeout(() => {
  console.log('timeout');
 }, 0);
 Promise.resolve().then(() => {
  console.log('promise');
 });
 console.log('end');
  a. start
          end
          promise
          timeout
  O b. start
          promise
          end
          timeout
  oc. start
          end
          timeout
          promise
  Od. start
          end
          promise
          timeout
```

promise