JUIZ ZO-UJ-ZUZJ. Attembi leview	ZIUC	28-05-2025:	Attempt review
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Started on	Wednesday, 28 May 2025, 2:20 PM
State	Finished
Completed on	Wednesday, 28 May 2025, 2:48 PM
Time taken	28 mins 1 sec
Marks	13.00/20.00
Grade	65.00 out of 100.00
Question 1	
Complete	
Mark 0.00 out of 1.00	
Which of the following	ng are true?
a. this.variableNa	ame can be called from any instance method in the class.
b. this.variableN	ame can be called from any static method in the class.
c. You can call th	e default constructor written by the compiler using this().
d. this() can be c	alled from any instance method in the class.
e. You can acces	s a private constructor with the main() method.
f. You must inclu	de a default constructor in the code if the compiler does not include one.
g. this() can be c	alled from anywhere in a constructor.
Question 2	
Complete	
Mark 1.00 out of 1.00	
Arrays in JavaScript a	re defined by which of the following statements?
a. It is an order	red list of string
○ b. It is an order	red list of objects
oc. It is an order	red list of functions
d. It is an order	red list of values

Question 3
Complete
Mark 1.00 out of 1.00
Which statement is used to remove a trigger?
which statement is used to remove a trigger:
○ a. REMOVE
○ c. DELETE
○ d. CLEAR
Question 4
Complete
Mark 0.00 out of 1.00
Will the following JavaScript code work?
$var js = \{function(x) \{return x*x;\}(10)\};$
a. error
○ b. Yes, perfectly
○ c. Memory leak
○ d. Exception will be thrown

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Question 5 Complete Mark 1.00 out of 1.00

What output does the below pseudo code produces?

```
Tree_node function(Tree_node x)

{
    Tree_node y = x.left;
    x.left = y.right;
    y.right = x;
    return y;
}

a. right rotation of subtree

b. zig-zag operation

c. zig-zig operation
```

Od. left rotation of subtree

Question 6 Complete Mark 1.00 out of 1.00

What is printed besides the stack trace caused by the NullPointerException from line 16?

1: public class DoSomething {			
2: public void go() {			
3: System.out.print("A");			
4: try {			
5: stop();			
6: } catch (ArithmeticException e) {			
7: System.out.print("B");			
8: } finally {			
9: System.out.print("C");			
10: }			
11: System.out.print("D");			
12: }			
13: public void stop() {			
14: System.out.print("E");			
15: Object x = null;			
16: x.toString();			
17: System.out.print("F");			
18: }			
19: public static void main(String[] args) {			
20: new DoSomething().go();			
21: }			
22:}			
a. No output appears other than the stack trace			
b. AEBCD			
○ c. AE			
• d. AEC			

O e. AECD

```
Question 7
Complete
Mark 1.00 out of 1.00
```

You are given the following Orders table:

```
CREATE TABLE Orders (
order_id INT PRIMARY KEY,
customer_id INT,
order_date DATE,
amount DECIMAL(10,2)
);
```

Which query returns all customers whose total order amount is greater than the average total order amount of all customers?

```
a. SELECT customer_id
      FROM Orders
      GROUP BY customer_id
      HAVING SUM(amount) > (
        SELECT AVG(total)
        FROM (SELECT customer_id, SUM(amount) AS total FROM Orders GROUP BY customer_id) AS sub
      );
b. SELECT customer_id
      FROM Orders
      WHERE amount > (
        SELECT AVG(amount) FROM Orders
      GROUP BY customer_id;
oc. SELECT DISTINCT customer_id
      FROM Orders
      WHERE amount > ALL (
        SELECT SUM(amount) FROM Orders GROUP BY customer_id
      );
d. SELECT customer_id
      FROM Orders
      GROUP BY customer_id
      HAVING SUM(amount) > (
        SELECT SUM(amount)/COUNT(DISTINCT customer_id) FROM Orders
      );
```

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```
Question 8
Complete
Mark 0.00 out of 1.00
```

Which of the following statements can be inserted in the blank so that the code will compile successfully? (Choose all that apply)

public class Snake {}

public class Cobra extends Snake {}

public class GardenSnake {}

public class SnakeHandler {

private Snake snake;

public void setSnake(Snake snake) { this.snake = snake; }

public static void main(String[] args) {

new SnakeHandler().setSnake(
);

}

a. null

b. new String("Snake")

c. new Snake()

d. new Cobra()

e. new Object()

f. new GardenSnake()

```
Question 9
```

Complete

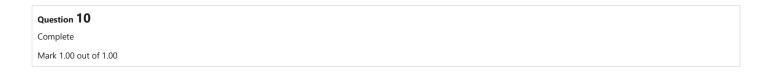
Mark 0.00 out of 1.00

```
Given the following
```

```
class Person{
  Person(String s, int i){
     ++pid;
     name = s;
     age = i;
  }
  static int pid;
  int age;
  String name;
class Test{
  public static void main(String args[]){
     Person p1 = new Person("John", 22);
     Test te = new Test();
     Person p2 = te.change(p1);
     System.out.println(p2.pid + " " + p2.name + " " + p2.age);
     System.out.print(p1.pid + " " + p1.name + " " + p1.age);
  }
  private Person change(Object o){
     Person p2 = (Person)o;
     p2.age = 25;
     return p2;
  }
}
```

What is the result?

- a. 1 John 25 1 John 22
- b. Compilation fails
- oc. 1 John 25 1 John 25
- d. 1 John 22 1 John 22
- e. ClassCastException is thrown at runtime



What will be the output of the following Python code?

I=[1, 0, 2, 0, 'hello', '', []]

list(filter(bool, I))

- a. [1, 0, 2, 0, 'hello', ", []]
- Ob. error
- o. [1, 0, 2, 'hello', ", []]
- d. [1, 2, 'hello']

```
Question 11
```

Complete

Mark 1.00 out of 1.00

d. display the list

What is the functionality of the following piece of code?

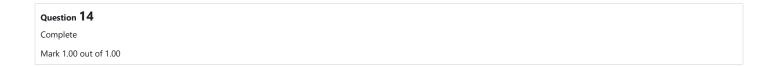
```
public void display()
    if(size == 0)
         System.out.println("underflow");
    else
         Node current = first;
         while(current != null)
              System.out.println(current.getEle());
              current = current.getNext();
         }
}
 a. reverse the list
        SELECT emp_name
        FROM Employees
        WHERE NOT EXISTS (
          SELECT 1 FROM Projects WHERE Projects.emp_id = Employees.emp_id
        );
 Ob. reverse the list excluding top-of-the-stack-element
        SELECT emp_name
        FROM Employees
        WHERE emp_id NOT IN (SELECT emp_id FROM Projects);
 oc. display the list excluding top-of-the-stack-element
```

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a. -3b. 2

c. Falsed. -4

	•
Question 12	
Complete	
Mark 1.00 out of 1.00	
Choose the correct statement about the following code:	
1: interface HasExoskeleton {	
2: abstract int getNumberOfSections();	
3:}	
4: abstract class Insect implements HasExoskeleton {	
5: abstract int getNumberOfLegs();	
6: }	
7: public class Beetle extends Insect {	
8: int getNumberOfLegs() { return 6; }	
9: }	
a. The code will not compile because of line 4.	
○ b. It compiles but throws an exception at runtime.	
c. The code will not compile because of line 2.	
d. The code will not compile because of line 7.	
e. It compiles and runs without issue.	
Question 13	
Complete Mark 100 out of 100	
Mark 1.00 out of 1.00	
What will be the output of the following Python function?	
min(max(False,-3,-4), 2,7)	



What will be the output of the following Python code snippet?

```
for i in [1, 2, 3, 4][::-1]:
    print(i, end=' ')

    a. none of the mentioned
    b. 4 3 2 1
```

c. errord. 1234

FROM Employees

SELECT emp_name FROM Employees WHERE NOT EXISTS (

oc. All the above

);

O d.

WHERE emp_id NOT IN (SELECT emp_id FROM Projects);

SELECT 1 FROM Projects WHERE Projects.emp_id = Employees.emp_id

```
Question 15
Complete
Mark 1.00 out of 1.00
 Consider the following tables:
 CREATE TABLE Employees (
    emp_id INT PRIMARY KEY,
   emp_name VARCHAR(100),
   department_id INT
 );
 CREATE TABLE Projects (
   project_id INT PRIMARY KEY,
   emp_id INT,
   hours_worked INT
 );
 Which of the following queries correctly returns the names of employees who have not worked on any project?
  a. SELECT emp_name
         FROM Employees E
         LEFT JOIN Projects P ON E.emp_id = P.emp_id
         WHERE P.emp_id IS NULL;
  O b.
         SELECT emp_name
```

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What is the average running time of a treap?

- a. O(log N)
- b. O(N)
- c. O(M log N)
- Od. O(N log N)

Question 17

Complete

Mark 0.00 out of 1.00

What is the output of the following logic?

```
arr = [3, 1, 4, 2]
stack = []
res = [-1]*len(arr)

for i in range(len(arr)-1, -1, -1):
  while stack and stack[-1] <= arr[i]:
    stack.pop()
  if stack:
    res[i] = stack[-1]
  stack.append(arr[i])</pre>
```

print(res)

- a. [4, -1, -1, -1]
- O b. [4, 4, -1, -1]
- c. [-1, 4, -1, 4]
- Od. [4, 4, 2, -1]

```
Question 18
```

Complete

Mark 0.00 out of 1.00

You have two tables:

Customers(customer_id, customer_name, city)

Orders(order_id, customer_id, order_date, amount)

Which query returns the total order amount per customer in 2024, only including customers with more than 3 orders in that year?

```
a. SELECT c.customer_name, SUM(o.amount) AS total_spent
      FROM Customers c
      JOIN Orders o ON c.customer_id = o.customer_id
      WHERE YEAR(o.order_date) = 2024
      GROUP BY c.customer_name
      HAVING COUNT(*) > 3;
O b.
      SELECT customer_name, COUNT(*) AS total_orders
      FROM Customers
      WHERE EXISTS (
         SELECT 1 FROM Orders o
         WHERE o.customer_id = Customers.customer_id AND YEAR(o.order_date) = 2024
      GROUP BY customer_name
      HAVING total_orders > 3;
c. SELECT c.customer_name, SUM(o.amount) AS total_spent
      FROM Customers c
      LEFT JOIN Orders o ON c.customer_id = o.customer_id
      WHERE o.order_date >= '2024-01-01'
      GROUP BY c.customer_name
      HAVING COUNT(*) > 3;
O d.
      SELECT c.customer_name, COUNT(o.order_id) AS total_orders, SUM(o.amount) AS total_spent
      FROM Customers c
      JOIN Orders o ON c.customer_id = o.customer_id
      WHERE o.order_date LIKE '2024%'
      GROUP BY c.customer_name
      HAVING total_orders > 3;
```

Question 19	
Complete	
Mark 0.00 out of 1.00	
How many values can be returned from a stored procedure?	
τ ,	
○ a. 3	
○ b. 2	
○ d. 0	
Question 20	
Complete	
Mark 1.00 out of 1.00	
Where is Client-side JavaScript code is embedded within HTML documents?	
Where is elient side savaseript code is embedded within Titiviz documents.	
a. A URL that uses the special javascript:encoding	
b. A URL that uses the special javascript:code	
c. A URL that uses the special javascript:protocol	
d. A URL that uses the special javascript:stack	

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