1

Not yet answered

Marked out of 1.00

In an examination, A got 10% marks less than B, B got 25% marks more than C an
C got 20% less than D. If A got 360 marks out of 500, the percentage of marks
obtained by D was:

Select one or more:

□ a. 75

🗸 b. 80

┌ c. 85

Question

2

Not yet answered

Marked out of 1.00

Which of the following MySQL queries correctly uses a nested subquery to return the second-highest salary from an employees table?

Select one or more:

☐ a. SELECT salary

FROM employees

GROUP BY salary DESC LIMIT 2, 1;

□ b. SELECT salary

FROM employees

WHERE salary = (SELECT MAX(salary) FROM employees);

☐ c. SELECT MAX(salary)

FROM employees

WHERE salary < (SELECT MAX(salary) FROM employees);

d. SELECT salary

FROM employees

ORDER BY salary DESC LIMIT 1, 1;

3

Not yet answered Marked out of 1.00 What does the following correlated subquery achieve?

SELECT name
FROM employees e1

WHERE salary > (SELECT AVG(salary)

FROM employees e2

WHERE e2.department_id = e1.department_id);

Select one or more:

a. Selects all employees, regardless of their salary

b. Selects employees whose salary is less than the average salary across all departments

c. Selects the employees whose salary is greater than the average salary in their department

Question

4

Not yet answered

Marked out of 1.00

What is the output of the following code snippet?

- 3: int x = 0;
- 4: String s = null;
- 5: if(x == s) System.out.println("Success");
- 6: else System.out.println("Failure");

- □ a. The code will not compile because of line 4.
- □ b. Success
- c. The code will not compile because of line 5.
- ¬d. Failure

5

Not yet answered

Marked out of 1.00

Consider the following SQL query:

SELECT department, COUNT(employee_id)

FROM employees

GROUP BY department

HAVING COUNT(employee_id) > 10;

What is the purpose of the HAVING clause in this query?

Select one or more:

va. To filter groups based on the count of employees in each department

b. To filter the rows before the GROUP BY operation

c. To group the rows based on department and then sort them

d. To aggregate the number of employees in each department

Question



Not yet answered Marked out of 1.00 Which of the following can we add after line 5 for the code to run without error and not produce any output? (Choose all that apply.)

- 4: LongStream Is = LongStream.of(1, 2, 3);
- 5: OptionalLong opt = $ls.map(n \rightarrow n * 10).filter(n \rightarrow n < 5).findFirst();$

- a. None of these; the code does not compile.
- c. opt.ifPresent(System.out.println)
- d. if (opt_isPresent()) System.out.println(opt_getAsLong());
- e. if (opt.isPresent()) System.out.println(opt.get());
- ☐ f. opt.ifPresent(System.out::println)

7

Not yet answered

Marked out of 1.00

 Suppose we have a class named Rabbit. Which of the following statements are true? (Choose all that apply) 1: public class Rabbit { 2: public static void main(String[] args) { 3: Rabbit one = new Rabbit(); 4: Rabbit two = new Rabbit(); 5: Rabbit three = one; 6: one = null; 7: Rabbit four = one; 8: three = null; 9: two = null;10: two = new Rabbit(); 11: System.gc(); 12: } } Select one or more: ☐ a. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 8. **□** b. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 12. c. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 6. ightharpoonup d. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 12. e. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 9. ☐ f. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 11.

8

Not yet answered

Marked out of 1.00

What will come in place of question mark in the given question: 6, 7, 16, 51, ?, 1045
Select one or more:
a. 316
_ b. 454
_ c. 582
☑ d. 208

Question

9

Not yet answered

☐ d. O(n^2)

Marked out of 1.00

```
int n = 16;

for (int i = n; i > 0; i = i / 2) {
    printf("%d\n", i);
}

What is the time complexity of the above code

Select one or more:
    a. O(n log n)
    b. O(n)
    c. O(log n)
```

10

Not yet answered Marked out of 1.00

```
We have a method that returns a sorted list without changing the original. Which of
the following can replace the method implementation to do the same with streams?
private static List<String> sort(List<String> list) {
List<String> copy = new ArrayList<>(list);
Collections.sort(copy, (a, b) -> b.compareTo(a));
return copy;
}
Select one or more:

    ¬a. return list.stream()

.compareTo((a, b) -> b.compareTo(a))
.sort();
b. return list.stream()
.sorted((a, b) -> b.compareTo(a))
.collect(Collectors.toList());
c. return list.stream()
.compareTo((a, b) -> b.compareTo(a))
.collect(Collectors.toList());
d. return list.stream()
.compare((a, b) -> b.compareTo(a))
.collect(Collectors.toList());
e. return list.stream()
.sorted((a, b) -> b.compareTo(a))
.collect();

¬f. return list.stream()
```

Question 11

Not yet answered

Marked out of 1.00

Among 5 friends J, K, L, M and N each swimming at a different speed in a race, who swam the second fastest? L swam faster than only two people. J swam faster than K but slower than N. K did not swim the slowest.

Select one or more:

.compare((a, b) -> b.compareTo(a))

¬ a. M

.sort();

🗸 b. J

□c.L

12

Not yet answered

Marked out of 1.00

```
Given the following SQL query, what will be the result?

SELECT e1.name
FROM employees e1
WHERE EXISTS (
SELECT 1
FROM employees e2
WHERE e2.manager_id = e1.employee_id
);

Select one or more:

a. It selects the employees who are not managers.

b. It produces an error due to invalid EXISTS syntax.

c. It selects all employees.

✓ d. It selects the employees who are managers.
```

Question

13

Not yet answered

Marked out of 1.00

What is the time complexity of inserting an element into a sorted array of size n?

Select one or more:

_a. O(1)

b. O(n)

¬ c. O(log n)

☐ d. O(n^2)

Question

14

Not yet answered

Marked out of 1.00

What is the primary difference between a stack and a queue?

Select one or more:

a. The order in which elements are inserted and removed

¬ b. The memory allocation strategy

c. Their implementation using arrays or linked lists

nd. The data type of elements they can store

15

1.00

Not yet answered
Marked out of

Avinash is Ravi's eldest brother. Ravi is younger to Ajay. Ravi and Ajay are not brothers. Which of the following statements is definitely true?

- **▽** a. Ajay is younger to Avinash
- ✓ b. Ravi is younger to Avinash
- ┌ c. Ajay is younger to Ravi
- □ d. Avinash is younger to Ajay

16

Not yet answered

Marked out of 1.00

```
How many compiler errors are in the following code?
1: public class RopeSwing {
2: private static final String leftRope;
3: private static final String rightRope;
4: private static final String bench;
5: private static final String name = "name";
6: static {
7: leftRope = "left";
8: rightRope = "right";
9:}
10: static {
11: name = "name";
12: rightRope = "right";
13: }
14: public static void main(String[] args) {
15: bench = "bench";
16: }
17:}
Select one or more:
_ a. 4
b. 3
_ c. 2
□ d. 5
_ e. 1
☐ f. 0
```

17

Not yet answered

Marked out of 1.00

Select from the following statements and indicate the order in which they would appear to output 10 lines:

Stream.generate(() -> "1")

L: .filter($x \rightarrow x.length() > 1$)

M: .forEach(System.out::println)

N: .limit(10)

O: .peek(System.out::println)

;

- 🗸 a. N, O
- _ b. L, N, M
- ┌c. L, O, M
- _ d. L, N, O
- □ e. N, M
- ☐ f. L, N
- _g. L, N, M, O

Not yet answered Marked out of 1.00

What is printed by the following? (Choose all that apply) 1: public class Mouse { 2: public String name; 3: public void run() { 4: System.out.print("1"); 5: try { 6: System.out.print("2"); 7: name.toString(); 8: System.out.print("3"); 9: } catch (NullPointerException e) { 10: System.out.print("4"); 11: throw e; 12: } 13: System.out.print("5"); 14: } 15: public static void main(String[] args) { 16: Mouse jerry = new Mouse(); 17: jerry.run(); 18: System.out.print("6"); 19: } } Select one or more: _ a. 3 ✓ b. The stack trace for a NullPointerException 🗸 d. 2 _ e. 1 **∫f.** 5 _g.6

19

Not yet answered

Marked out of 1.00

The average age of 40 students of a class is 15 years. When 10 new students are
admitted, the average is increased by 0.2 years. Find the average age of new
students?

Select one or more:

- ┌a. 15.2
- **□ b. 16.2**
- ┌c. 15
- ✓ d. 16

🗸 f. false

Question **20**

Not yet answered

Marked out of 1.00

What is the output of the following code? 1: interface Nocturnal { 2: default boolean isBlind() { return true; } 3:} 4: public class Owl implements Nocturnal { 5: public boolean isBlind() { return false; } 6: public static void main(String[] args) { 7: Nocturnal nocturnal = (Nocturnal)new Owl(); 8: System.out.println(nocturnal.isBlind()); 9: } 10: } Select one or more: □ a. The code will not compile because of line 5. □ b. true c. The code will not compile because of line 7. ¬d. The code will not compile because of line 2.

e. The code will not compile because of line 8.

Not yet answered Marked out of 1.00

Which of the following sorting algorithms is the fastest for large data?
Select one or more:
☐ a. Insertion sort
☑ b. Merge sort
□ c. Selection sort
ຸ d. Bubble sort

Question 22

Not yet answered

Marked out of 1.00

What is the result of the following code? 3: String s = "purr"; 4: s.toUpperCase(); 5: s.trim(); 6: s.substring(1, 3); 7: s += " two"; 8: System.out.println(s.length()); Select one or more: □ a. The code does not compile. **□** b. 4 _ c. 2 ¬d. An exception is thrown. ✓ e. 8 ☐ f. 10

Not yet answered

Marked out of 1.00

Which of the following are true given the declaration IntStream is = IntStream.

empty()? (Choose all that apply.)

Select one or more:

a. is.findAny() returns the type OptionalInt.

b. is.average() returns the type OptionalInt.

c. is.findAny() returns the type int.

d. is.sum() returns the type OptionalInt.

e. is.sum() returns the type int.

f. is.average() returns the type int.

Question

24

Not yet answered

Marked out of 1.00

What is the time complexity of finding the kth smallest element in a min-heap of size n?

- _ a. O(n)
- □ b. O(k)
- c. O(k log n)
- d. O(log n)

Not yet answered

Marked out of

1.00

Which of the following queries will return a list of departments with more than 20 employees, sorted by department name? Select one or more: **☑** a. SELECT department, COUNT(*) **FROM employees GROUP BY department HAVING COUNT(*) > 20 ORDER BY department; □** b. SELECT department, COUNT(*) **FROM** employees WHERE COUNT(*) > 20**GROUP BY department ORDER BY department;** c. SELECT department **FROM employees GROUP BY department HAVING COUNT(*) > 20 ORDER BY department DESC;** ¬d. SELECT department, COUNT(*) FROM employees **GROUP BY department**

Quiz Navigation

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Finish attempt ... (http://kmitonline.com/mod/quiz/summary.php?attempt=475385)

ORDER BY department HAVING COUNT(*) > 20;

Time left 0:05:34