

Started on	Monday, 2 June 2025, 2:16 PM
State	Finished
Completed on	Monday, 2 June 2025, 2:34 PM
Time taken	18 mins 29 secs
Marks	14.00/20.00
Grade	70.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What will be the output of the following Python code?

```
import re
s = "A new day"
m = re.match(r'(.*)(.*)', s)
print(m.group(2))

print(m.group(0))
```

- ☐ a. ['A', 'new', 'day']
('A', 'new', 'day')
- ☐ b. Error
['A', 'new', 'day']
- ☐ c. No output
No output
- ☒ d. No output
A new day

Question 2

Complete

Mark 1.00 out of 1.00

What is the meaning of "EMPTY SET" in the following MySQL command?

```
SELECT fname, lname, person_id
FROM person
WHERE lname='s';
/* after Execution*/ Mysql tool RETURNS EMPTY SET 0:00sec
```

- ☐ a. None of the mentioned
- ☐ b. Error
- ☒ c. No values
- ☒ d. Access denied

Question 3

Complete

Mark 1.00 out of 1.00

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

```
a = [0, 1, 2, 3]
```

```
i = -2
```

```
for i not in a:
```

```
    print(i)
```

```
    i += 1
```

- ☐ a. 0
- ☐ b. -2 -1
- ☒ c. error
- ☐ d. none of the mentioned

Question 4

Complete

Mark 1.00 out of 1.00

What will be the output of the following pseudo code on input A = [4, 2, 1, 3]?

```
procedure Process(A[1...n]):
```

```
    M = A[1]
```

```
    for i = 2 to n:
```

```
        if A[i] < M:
```

```
            M = A[i]
```

```
    return M
```

- ☒ a. 1
- ☐ b. 3
- ☐ c. 2
- ☐ d. 4

Question 5

Complete

Mark 1.00 out of 1.00

Among the keywords below, which one is not a statement?

- ☐ a. with
- ☐ b. debugger
- ☐ c. if
- ☒ d. use strict

Question 6

Complete

Mark 1.00 out of 1.00

What will be the equivalent code of the following JavaScript code?

```
for (var p in o)
```

```
  console.log(o[p]);
```

- ☐ a.

```
for (var i = 0; i <= a.length; i++)  
  console.log(a[i]);
```
- ☐ b.

```
for (int i = 0; i < a.length; i++)  
  console.log(a[i]);
```
- ☐ c.

```
for (var i = 1; i < a.length; i++)  
  console.log(a[i]);
```
- ☒ d.

```
for (var i = 0; i < a.length; i++)  
  console.log(a[i]);
```

Question 7

Complete

Mark 1.00 out of 1.00

Which is true? (Choose all that apply.)

- ☒ a. "X extends Y" is correct if X and Y are either both classes or both interfaces
- ☐ b. "X extends Y" is correct if and only if X is a class and Y is an interface
- ☒ c. "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces
- ☐ d. "X extends Y" is correct if and only if X is an interface and Y is a class

Question 8

Complete

Mark 1.00 out of 1.00

Which method is used to establish a connection to the database?

- ☐ a. Class.forName()
- ☐ b. executeQuery()
- ☐ c. prepareStatement()
- ☒ d. getConnection()

Question 9

Complete

Mark 0.00 out of 1.00

Consider the following pseudocode:

procedure Mystery(A[1...n]):

 for i = 2 to n:

 j = i

 while j > 1 and A[j] < A[j-1]:

 swap A[j], A[j-1]

 j = j - 1

What classic algorithm is this an implementation of?

- ☒ a. Merge Sort
- ☒ b. Bubble Sort
- ☐ c. Insertion Sort
- ☐ d. Selection Sort

Question 10

Complete

Mark 1.00 out of 1.00

Which of the following testing techniques is primarily used to test the internal structure of code?

- ☒ a. White-box testing
- ☐ b. Regression testing
- ☐ c. Black-box testing
- ☒ d. Usability testing

Question 11

Complete

Mark 0.00 out of 1.00

What will be the output of the following JavaScript code?

```
function printArray(a) {  
  var len = a.length, i = 0;  
  if (len == 0)  
    console.log("Empty Array");  
  else {  
    do {  
      console.log(a[i]);  
    } while (++i < len);  
  }  
}
```

X ? O

- ☐ a. Prints 0 to the length of the array
- ☒ b. Prints the numbers in the array in order
- ☐ c. Prints "Empty Array"
- ☐ d. Prints the numbers in the array in the reverse order

Question 12

Complete

Mark 0.00 out of 1.00

What will be the output of the following JavaScript code?

```
var a = 0;  
var b = 0;  
while (a < 3) {  
  a++;  
  b+=a;  
  console.log(b);  
}
```

correct

- ☐ a. 013
- ☐ b. 01
- ☒ c. 136
- ☐ d. 123

Question 13

Complete

Mark 0.00 out of 1.00

Which class is used to load the JDBC driver in Java?

- ☐ a. Driver
- ☒ b. DriverManager
- ☐ c. Class
- ☐ d. ClassLoader

**Question 14**

Complete

Mark 1.00 out of 1.00

Which SQL clause is used to filter the results of a GROUP BY clause?

- ☐ a. WHERE
- ☒ b. HAVING
- ☒ c. GROUP BY
- ☐ d. ORDER BY

Question 15

Complete

Mark 1.00 out of 1.00

What is the purpose of the `ResultSet` interface in JDBC?

- ☐ a. To update data in the database
- ☒ b. To hold the result of an SQL query
- ☐ c. To delete records from the database
- ☐ d. To establish a connection to the database

Question 16

Complete

Mark 0.00 out of 1.00

Which interface provides methods for executing SQL statements in JDBC?

- ☐ a. Connection
- ☒ b. PreparedStatement
- ☐ c. ResultSet
- ☐ d. Statement



Question 17

Complete

Mark 1.00 out of 1.00

Given:

```
4. public class Frodo extends Hobbit {  
5. public static void main(String[] args) {  
6. Short myGold = 7;  
7. System.out.println(countGold(myGold, 6));  
8. }  
9. }  
10. class Hobbit {  
11. int countGold(int x, int y) { return x + y; }  
12. }
```

What is the result?

- ☒ a. Compilation fails due to an error on line 7
- ☐ b. Compilation fails due to multiple errors
- ☐ c. Compilation fails due to an error on line 11
- ☐ d. 13
- ☐ e. Compilation fails due to an error on line 6

Question 18

Complete

Mark 1.00 out of 1.00

What does JDBC stand for?

- ☐ a. Java Data Binding Connector
- ☐ b. Java DataBase Compiler
- ☐ c. Java Data Class
- ☒ d. Java Database Connectivity

Question 19

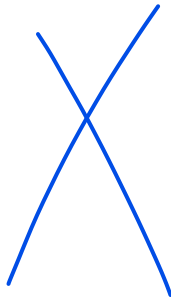
Complete

Mark 0.00 out of 1.00

The output of the following two Python codes are the same.

```
import re
p = re.compile('hello')
r = p.match('hello everyone')
print(r.group(0))

r = re.match('hello', 'hello everyone')
print(r.group(0))
```

☐ a. False☒ b. True**Question 20**

Complete

Mark 1.00 out of 1.00

What will be the output of the following JavaScript code?

```
function range(int length) {
  var a=5;
  for (var i = 0; i < length; i++)
  {
    console.log(a);
  }
}
range(3);
```

- ☐ a. 3
- ☐ b. Error
- ☒ c. 555
- ☐ d. 5