

Question

1

Not yet
answered

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1.00

What does the output of the following contain? (Choose all that apply)

```
12: public static void main(String[] args) {  
13:     System.out.print("a");  
14:     try {  
15:         System.out.print("b");  
16:         throw new IllegalArgumentException();  
17:     } catch (IllegalArgumentException e) {  
18:         System.out.print("c");  
19:         throw new RuntimeException("1");  
20:     } catch (RuntimeException e) {  
21:         System.out.print("d");  
22:         throw new RuntimeException("2");  
23:     } finally {  
24:         System.out.print("e");  
25:         throw new RuntimeException("3");  
26:     }  
27: }
```

Select one or more:

- ☐ a. An exception with the message set to "1"
- ☐ b. abde
- ☒ c. abce
- ☒ d. An exception with the message set to "3"
- ☐ e. Nothing; the code does not compile.
- ☐ f. An exception with the message set to "2"

Question

2

Not yet
answered

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1.00

Which layer of the OSI model is responsible for end-to-end delivery of messages?

Select one:

- ☐ a. Session
- ☐ b. Network
- ☒ c. Transport
- ☐ d. Data Link

Question 3

Not yet answered

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What is the function of IF EXISTS in a DROP TABLE statement?

Select one:

- ☐ a. Drops only if the table is locked
- ☒ b. Prevents error if table doesn't exist
- ☐ c. Forces the deletion of referenced tables
- ☐ d. Ignores permission errors

Question 4

Not yet answered

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In software testing, what is the purpose of regression testing?

Select one:

- ☒ a. To validate unchanged parts after updates
- ☐ b. To perform load testing
- ☐ c. To identify security issues
- ☐ d. To test new functionality

Question 5

Not yet answered

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Which protocol is used for secure communication over the internet?

Select one:

- ☐ a. SMTP
- ☐ b. DHCP
- ☐ c. FTP
- ☒ d. HTTPS

Question 6

Not yet answered

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What is the main function of an operating system?

Select one:

- ☐ a. Creating web pages
- ☐ b. Compiling source code
- ☒ c. Managing computer hardware and software resources
- ☐ d. Running antivirus scans only

Question 7

Not yet answered

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What type of testing is performed without executing the code?

Select one:

- ☐ a. Integration Testing
- ☐ b. Regression Testing
- ☐ c. White-box Testing
- ☒ d. Static Testing

Question 8

Not yet answered

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What will be the output of the following SQL statement?

```
SELECT person_id, fname, lname  
FROM person  
WHERE person_id = 1;
```

Select one:

- ☐ a. Shows only columns person_id
- ☐ b. Show all columns and rows
- ☒ c. Show only columns (person_id, fname, lname) but only those rows which belongs to person_id = 1
- ☐ d. None of the mentioned

Question 9

Not yet answered

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In boundary value analysis, what is typically tested?

Select one:

- ☐ a. Middle values only
- ☒ b. Values near the edges of input ranges
- ☐ c. Only the maximum values
- ☐ d. Random values

Question 10

Not yet answered

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What is the result of the following class?

```
1: import java.util.function.*;
2:
3: public class Panda {
4:     int age;
5:     public static void main(String[] args) {
6:         Panda p1 = new Panda();
7:         p1.age = 1;
8:         check(p1, p -> p.age < 5);
9:     }
10:    private static void check(Panda panda, Predicate<Panda> pred) {
11:        String result = pred.test(panda) ? "match" : "not match";
12:        System.out.print(result);
13:    } }
```

Select one:

- ☐ a. not match
- ☒ b. match
- ☐ c. A runtime exception is thrown.
- ☐ d. Compiler error on line 11.
- ☐ e. Compiler error on line 10.
- ☐ f. Compiler error on line 8.

Question 11

Not yet answered

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Which of the following is a non-functional testing type?

Select one:

- ☐ a. Unit Testing
- ☒ b. Usability Testing
- ☐ c. Regression Testing
- ☐ d. Boundary Testing

Question 12

Not yet answered

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Which model is best suited for large, long-term projects where requirements are well understood?

Select one:

- ☐ a. Spiral
- ☒ b. Waterfall
- ☐ c. Incremental
- ☐ d. Agile

Question 13

Not yet answered

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What is the output of the following code? (Choose all that apply)

```
1: interface Aquatic {  
2:   public default int getNumberOfGills(int input) { return 2; }  
3: }  
4: public class ClownFish implements Aquatic {  
5:   public String getNumberOfGills() { return "4"; }  
6:   public String getNumberOfGills(int input) { return "6"; }  
7:   public static void main(String[] args) {  
8:     System.out.println(new ClownFish().getNumberOfGills(-1));  
9:   }  
10: }
```

Select one:

- ☐ a. The code will not compile because of line 8.
- ☐ b. 6
- ☐ c. The code will not compile because of line 5.
- ☒ d. The code will not compile because of line 6.
- ☐ e. 4
- ☐ f. 2

Question 14

Not yet answered

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What is the default port number for the HTTP protocol?

Select one:

- ☐ a. 23
- ☒ b. 80
- ☐ c. 443
- ☐ d. 21

Question 15

Not yet answered

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Which tool is commonly used for automated functional testing?

Select one:

- ☐ a. JIRA
- ☒ b. Selenium
- ☐ c. Git
- ☐ d. Wireshark

Question 16

Not yet answered

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Which of the following is an example of an operating system?

Select one:

- ☐ a. Microsoft Word
- ☒ b. Windows 10
- ☐ c. Intel Processor
- ☐ d. Google Chrome

Question 17

Not yet answered

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What is the output of the following function when applied to an undirected graph represented as an adjacency list?

Function BFS(Node start):

Queue Q

Add start to Q

While Q is not empty:

Node u = Q.dequeue()

print u

For each neighbor v of u:

If v is not visited:

Mark v as visited

Add v to Q

Select one:

- ☐ a. Depth-First Traversal
- ☐ b. Detection of cycles
- ☒ c. Shortest path in an unweighted graph
- ☐ d. Finding the minimum spanning tree

Question 18

Not yet
answered

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Which of the following is a type of user interface used by operating systems?

Select one:

- ☐ a. URL
- ☐ b. HTTP
- ☒ c. GUI (Graphical User Interface)
- ☐ d. Bluetooth

Question 19

Not yet
answered

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What does the term “coupling” refer to in software design?

Select one:

- ☐ a. A debugging technique
- ☐ b. The number of classes in a program
- ☐ c. A testing strategy
- ☒ d. Interdependence between modules

Question 20

Not yet
answered

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What is the main focus of integration testing?

Select one:

- ☒ a. Interfaces between components
- ☐ b. Full system
- ☐ c. User acceptance
- ☐ d. Individual components

Quiz Navigation

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#)

Finish attempt ... (<http://kmitonline.com/mod/quiz/summary.php?attempt=481038>)