

Started on Tuesday, 18 March 2025, 1:57 PM**State** Finished**Completed on** Tuesday, 18 March 2025, 2:06 PM**Time taken** 9 mins 25 secs**Marks** 10.00/15.00**Grade** 66.67 out of 100.00**Question 1**

Incorrect

Mark 0.00 out of 1.00

In a directed graph what is a cycle called where all vertices are distinct?

- ☐ a. Simple cycle
- ☐ b. Eulerian cycle
- ☒ c. Hamiltonian cycle ✖
- ☐ d. Bipartite cycle

Question 2

Incorrect

Mark 0.00 out of 1.00

What is the purpose of the new keyword in java?

- ☐ a. To initialize an array
- ☒ b. To allocate memory for an object ✖
- ☒ c. To create a new instance of a class ✖
- ☐ d. All the above ✓

Question 3

Correct

Mark 1.00 out of 1.00

What is the main advantage of using a Doubly Linked List over a Singly Linked List?

- ☐ a. Doubly Linked List requires less memory
- ☒ b. Faster deletion ✖
- ☐ c. It is easier to implement
- ☒ d. Traversal in both directions is possible ✓

Question 4

Incorrect

Mark 0.00 out of 1.00

What is the result of the following code? `int[] arr1={1,2,3}; int[] arr2=arr1; arr2[0]=4; System.out.println(arr1[0]);`

- ☐ a. 4
- ☒ b. 1
- ☐ c. 2
- ☐ d. 3

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following is the most efficient algorithm to find the shortest path in a weighted graph?

- ☐ a. Breath First search
- ☐ b. Prim's
- ☒ c. Dijkstra's
- ☐ d. Depth First search

Question 6

Correct

Mark 1.00 out of 1.00

What is the purpose of the continue statement in java?

- ☐ a. Restarts the loop from the beginning
- ☐ b. None of the above
- ☐ c. Ends the loop
- ☒ d. Skips the rest of the code in the loop and starts the next iteration

Question 7

Correct

Mark 1.00 out of 1.00

How do you access the third element in an array in java?

- ☐ a. `arr[3]`
- ☐ b. `arr(2)`
- ☐ c. `arr(3)`
- ☒ d. `arr[2]`

Question 8

Correct

Mark 1.00 out of 1.00

What is the default value of an instance variable in java?

- ☐ a. 0
- ☐ b. null
- ☒ c. Depends on the datatype ✓
- ☐ d. false

Question 9

Correct

Mark 1.00 out of 1.00

How do you call a method in Java?

- ☐ a. method_name.call(argument);
- ☐ b. method_name(argument).call();
- ☐ c. call method_name(argument);
- ☒ d. method_name(argument); ✓

Question 10

Correct

Mark 1.00 out of 1.00

What is method overloading in java?


- ☐ a. Having multiple methods with the same name but different return types
- ☐ b. Having multiple methods with the same name and same parameters
- ☐ c. None of the above.
- ☒ d. Having multiple methods with the same name but different parameters ✓

Question 11

Incorrect

Mark 0.00 out of 1.00

What is the result of the following code? `int x=5; System.out.println(x++ + ++x);`

- ☒ a. 11 ✗
- ☐ b. 10
- ☐ c. 13 
- ☐ d. 12

Question 12

Incorrect

Mark 0.00 out of 1.00

Which is the correct way to declare a constant in java?

- ☒ a. static final int x=10; ✗
- ☐ b. constant final int x=10;
- ☐ c. final int x=10;
- ☐ d. constant int x=10; ✓

Question 13

Correct

Mark 1.00 out of 1.00

In java which of the following is the most efficient data structure for retrieving data in constant time(on average)?

- ☒ a. TreeMap ✗
- ☒ b. PriorityQueue ✗
- ☐ c. LinkedList
- ☒ d. HashMap ✓

Question 14

Correct

Mark 1.00 out of 1.00

How do you find the length of an array in java?

- ☐ a. arr.length()
- ☐ b. arr.size()
- ☒ c. arr.length ✓
- ☐ d. length(arr)

Question 15

Correct

Mark 1.00 out of 1.00

What is the output of the following code? `for(int i=0;i<5;i++) { if(i==2) { continue; } System.out.println(i+ ""); }`

- ☐ a. 0 1 2 3 4
- ☐ b. 0 1 3
- ☒ c. 0 1 3 4 ✓
- ☐ d. 0 1 2 4