Network connection lost. (Autosave failed).

#### Question 1

Answer saved

Marked out of 1.00

Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What does the following function do?

```
void function(Node head) {
Node temp = head;
while (temp != null) {
System.out.print(temp.data + " ");
temp = temp.next;
}
```

- $\hfill \square$  a. Causes an infinite loop
- $\ \square$  b. Reverses the linked list
- ☐ c. Deletes all nodes in the linked list
- ✓ d. Prints the linked list

Question 2

Answer saved

Marked out of 1

Network connection lost. (Autosave failed).

Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What will be the output of the following code?

```
class Node {
int data;
Node next;
Node(int data) { this.data = data; this.next = null; }
}

public class LinkedListTest {
public static void main(String[] args) {
Node head = new Node(10);
head.next = new Node(20);
head.next.next = new Node(30);
System.out.println(head.next.next.data);
}

□ a. 20

■ b. 30
```

☐ c. Compilation Error

□ d. 10

7/25, 3:56 PM	Q0IZ_27-03-2025
Question 3 Answer saved Marked out of 1	Network connection lost. (Autosave failed).  Make a note of any responses entered on this page in the last few minutes, then try to re-connect.
	Once connection has been re-established, your responses should be saved and this message will disappear.
Given:	
class Hexy {	
	void main(String[] args) {
Integer i = 4	
_	<40)?"life": (i>50)?"universe":"everything";
System.out.	
}	
}	
What is the	result?
☐ a. An	exception is thrown at runtime
☐ b. life	
✓ c. eve	rything
☐ d. uni	verse
☐ e. nul	
☐ f. Cor	npilation fails
Question 4	
Answer saved	
Marked out of 1.0	
What is the	output of the following code?
	GCExample {
	void main(String[] args) {
	new String("Hello");
str = null;	
System.gc();	
	orintln("End of main");
}	
}	
☐ a. "He	ello" will be printed

☐ b. NullPointerException  $\ \square$  c. Unpredictable output

✓ d. "End of main" will be printed

# Question 5 Answer saved Marked out of 1 Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

#### Given:

```
3. public class Theory {
4. public static void main(String[] args) {
    String s1 = "abc";
   String s2 = s1;
6.
   s1 += "d";
7.
    System.out.println(s1 + " " + s2 + " " + (s1==s2));
8.
9.
10.
      StringBuffer sb1 = new StringBuffer("abc");
11.
      StringBuffer sb2 = sb1;
      sb1.append("d");
12.
      System.out.println(sb1 + " " + sb2 + " " + (sb1==sb2));
13.
14. }
15.}
```

Which are true? (Choose all that apply.)

- $\square$  a. The second line of output is abcd abcd false
- $\hfill \Box$  b. The first line of output is abc abc true
- c. The first line of output is abcd abc false
- $\ \square$  d. Compilation fails
- ☑ e. The second line of output is abcd abcd true
- $\hfill \Box$  f. The first line of output is abc abc false
- $\ \square$  g. The second line of output is abcd abc false

## Question 6 Answer saved Marked out of 1 Network connection lost. (Autosave failed). Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What will be the output of this jagged array code?

 $\ \square$  d. Compilation error

## Question 7 Answer saved Marked out of 1 Network connection lost. (Autosave failed). Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

Which of the following objects is eligible for garbage collection after m1() executes?

```
class A {
  int data;
}

public class Test {
  static void m1() {
  A a1 = new A();
  A a2 = new A();
  a1 = a2;
}

public static void main(String[] args) {
  m1();
  System.gc();
}

  a. The second A object
  b. None
```

- ✓ c. The first A object
- ☐ d. Both A objects

#### 3/27/25, 3:56 PM QUIZ 27-03-2025 Question 8 Network connection lost. (Autosave failed). Answer saved Marked out of 1 Make a note of any responses entered on this page in the last few minutes, then try to re-connect. Once connection has been re-established, your responses should be saved and this message will disappear. What will be the output of this BST search function if the target is 7? boolean search(Node root, int key) { if (root == null) return false; if (root.data == key) return true; if (key < root.data) return search(root.left, key); return search(root.right, key); Given the BST: 10 /\ 15 /\ \ 2 7 20 ☐ a. Compilation error □ b. None of the above ☐ c. false ✓ d. true Question 9 Answer saved Marked out of 1.00 What does this function do? int height(Node root) { if (root == null) return 0; return 1 + Math.max(height(root.left), height(root.right)); } ✓ a. Returns the height of the BST ☐ b. Returns the number of nodes in the BST $\ \square$ c. Performs a level-order traversal

## Question 10 Answer saved Marked out of 1 Network connection lost. (Autosave failed). Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What will be the output of the following Java code?

```
class Node {
int data;
Node next;
Node(int data) { this.data = data; this.next = null; }
}

public class Test {
public static void main(String[] args) {
Node head = new Node(10);
head.next = head;
System.out.println(head.next.data);
}
}

a. Runtime Error

b. 10
```

☐ c. Compilation Error

☐ d. Infinite Loop

#### Question 11 Answer saved Marked out of 1 Network connection lost. (Autosave failed). Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What will be the output of the following code?

```
public class ArrayExample {
  public static void main(String[] args) {
  int[] arr = {1, 2, 3, 4, 5};
  for (int i = 0; i < arr.length; i++) {
    arr[i] = arr[(i + 3) % arr.length];
  }
  for (int num : arr) {
    System.out.print(num + " ");
  }
  }
}</pre>
a. 4 5 4 5 4
b. 3 4 5 1 2
```

□ c. 45123

☐ d. None of the above

## Question 12 Answer saved Marked out of 1 Network connection lost. (Autosave failed). Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What does the following function return?

```
class Node {
int data;
Node left, right;
Node(int data) { this.data = data; left = right = null; }
}
int findMin(Node root) {
if (root == null) return -1;
while (root.left != null) {
root = root.left;
}
return root.data;
}
...

Z a. The minimum value in the BST
```

- $\ \square$  b. Always returns -1
- $\square$  c. The maximum value in the BST
- $\ \square$  d. The root node's value

## Question 13Network connection lost. (Autosave failed).Not yet answersMarked out of 1Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

Given:

Which of the following will be included in the output String s? (Choose all that apply.)

- $\hfill\Box$  a. An exception is thrown at runtime
- ✓ b. fly
- $\ \square$  c. Compilation fails
- $\ \square$  d. None of the above
- **✓** e. =s
- ☐ f. .e1
- **✓** g. .e2

#### Question 14Network connection lost. (Autosave failed).Not yet answersMarked out of 1Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What happens when an object becomes unreachable?

```
class Test {
int x;

Test(int x) { this.x = x; }
}

public class GCExample {
public static void main(String[] args) {

Test t1 = new Test(10);

Test t2 = new Test(20);
t1 = t2; // Line 1

System.gc();
}
}

a. t1 and t2 will both be garbage collected
```

- $\ \square$  b. No objects will be garbage collected
- ✓ c. The object containing 10 will be garbage collected
- ☐ d. The object containing 20 will be garbage collected

## Question 15Network connection lost. (Autosave failed).Not yet answereMarked out of 1Make a note of any responses entered on this page in the last few minutes, then try to re-connect.

Once connection has been re-established, your responses should be saved and this message will disappear.

What will be the output of this inorder traversal function?

```
void inorder(Node root) {
  if (root == null) return;
  inorder(root.left);
  System.out.print(root.data + " ");
  inorder(root.right);
}
```

If the BST has the following structure:

- □ a. 875432
- ✓ b. 234578
- □ c. 578324
- □ d. 532478