Started on	Thursday, 20 February 2025, 12:53 PM
State	Finished
Completed on	Thursday, 20 February 2025, 12:54 PM
Time taken	1 min 3 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What happens if a recursive function does not have a base condition?

- A. The function will return 0.
- O B. The function will throw an error immediately.
- O. The function will execute only once.
- D. The function will run indefinitely, causing a stack overflow.

Question 2

Complete

Mark 1.00 out of 1.00

```
Predict the Output of the following code:
#include <iostream>
using namespace std;
void func(int n) {
    cout << n << "";
    func(n - 1);
}
int main() {
    func(5);
    return 0;
}

A. 5 4 3 2 1 0 -1 -2 that is Infinite recursion, Stack Overflow.

B. 5 4 3 2 1

C. Compilation Error

D. 5 4 3 2 1 0
```

Question 3 Complete Mark 1.00 out of 1.00

```
Predict the output of the following code?

#include <iostream>
using namespace std;

void fun(int n) {
    if (n == 0) return;
    cout << n << " ";
    fun(n / 2);
}

int main() {
    fun(10);
    return 0;
}

A. None of the above

B. 12510

C. 105210

D. 10521
```

Question 4

Complete

Mark 1.00 out of 1.00

What is the Base Condition in Recursion?

- A. The initial value of the function.
- O B. The part of the function where the recursion happens.
- C. The condition that stops the recursion.
- \bigcirc D. The part of the function that calls itself.

Mark 1.00 out of 1.00		
What is the main disadvantage of recursion?		
	A. It is difficult to implement.	
	B. It cannot be used in all programming languages.	
	C. It can lead to stack overflow for large inputs.	
	D. It is slower than iteration.	

Question 5
Complete