

Sample Test for Entry-Level C# Developer

A. Multiple-Choice Questions (15 total)

(Each question can have 4 options with one correct answer.)

#	Category	Example Question
1	Syntax & Basics	Which of the following is the correct way to declare an integer variable in C#? A) int num; B) integer num; C) num int; D) int: num;
2	Data Types	What is the default value of a boolean in C#?
3	Operators	What will be the output of Console.WriteLine(5/2); ?
4	Control Structures	Which loop executes at least once regardless of condition?
5	OOP – Classes	What is encapsulation in Object-Oriented Programming?
6	OOP – Inheritance	Which keyword is used to inherit a class in C#?
7	Polymorphism	What is method overloading?
8	Exception Handling	Which block must always follow a try block?
9	Collections	What's the difference between an array and a list in C#?
10	LINQ	What does the LINQ Where() clause do?
11	File Handling	Which namespace is used for file input/output operations?
12	.NET Basics	What is the role of the Common Language Runtime (CLR)?
13	Memory Management	What does the using statement help with?
14	Debugging	What happens if an exception is not caught in a program?
15	Version Control	Which Git command is used to upload local commits to a remote repository?

Let's Get To Work.

This model is challenging but immensely rewarding. You will be building a new ecosystem for talent in South Africa.

B. B. Coding Simulator Tasks (5 total)

(Executed in a live code environment like HackerRank or Codility – automatically graded.)

#	Task	Example Description
1	String Manipulation	Write a program that counts the number of vowels in a given string.
2	Array Processing	Given an integer array, print all even numbers and their sum.
3	Conditional Logic	Create a program that checks whether an input number is prime.
4	OOP Implementation	Define a class Car with properties Make, Model, Year, and a method Display Details() that prints these values.
5	File I/O & Exception Handling	Write a program that reads lines from a text file and counts how many contain the word “error.” Handle file-not-found exceptions gracefully.

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