1. **What is an array in C#?**  
   a) A collection of variables of different types  
   b) A collection of variables of the same type stored in contiguous memory locations  
   c) A type of loop used in C#  
   d) A method of passing parameters to functions  
   **Answer:** b) A collection of variables of the same type stored in contiguous memory locations
2. **How do you declare an integer array in C#?**  
   a) int array[5];  
   b) int[] array = new int[5];  
   c) array int[5];  
   d) int array = [5];  
   **Answer:** b) int[] array = new int[5];
3. **What will be the default value of elements in an integer array if not initialized?**  
   a) null  
   b) 0  
   c) 1  
   d) Undefined  
   **Answer:** b) 0
4. **Which of the following is a correct way to initialize an array at the time of declaration?**  
   a) int[] arr = {1, 2, 3, 4, 5};  
   b) int arr[5] = {1, 2, 3, 4, 5};  
   c) int arr = new int[5] {1, 2, 3, 4, 5};  
   d) Both a and c  
   **Answer:** d) Both a and c
5. **How is a multidimensional array declared in C#?**  
   a) int[][] array;  
   b) int[ , ] array;  
   c) int[ ] array[ ];  
   d) array int[ , ];  
   **Answer:** b) int[ , ] array;
6. **What is a jagged array in C#?**  
   a) An array with variable-sized rows  
   b) A one-dimensional array  
   c) A dynamically allocated array  
   d) A multi-threaded array  
   **Answer:** a) An array with variable-sized rows
7. **Which method of the Array class gets the total number of elements in all dimensions?**  
   a) Size()  
   b) Count()  
   c) Length  
   d) GetUpperBound()  
   **Answer:** c) Length
8. **Which loop is commonly used to iterate over an array in C#?**  
   a) for loop  
   b) foreach loop  
   c) while loop  
   d) All of the above  
   **Answer:** d) All of the above
9. **What is the advantage of using params arrays in method parameters?**  
   a) It allows passing an unknown number of parameters  
   b) It automatically sorts array elements  
   c) It only works with integer arrays  
   d) It prevents memory allocation  
   **Answer:** a) It allows passing an unknown number of parameters
10. **What is the base class for all arrays in C#?**  
    a) Object  
    b) Collection  
    c) Array  
    d) List  
    **Answer:** c) Array