**MCQs on Chapter 35: Collections**

**1. What is the main purpose of collection classes in C#?**

A) To store and manage large amounts of numeric data  
B) To provide efficient ways to store, retrieve, and manipulate data  
C) To perform mathematical calculations  
D) To manage file input and output operations

**Answer:** B) To provide efficient ways to store, retrieve, and manipulate data

**2. Which of the following collection classes represents an ordered collection of objects that can be indexed individually?**

A) Stack  
B) Queue  
C) ArrayList  
D) Hashtable

**Answer:** C) ArrayList

**3. What is the primary difference between a Hashtable and a SortedList?**

A) Hashtable does not maintain order, whereas SortedList maintains sorted order  
B) Hashtable is faster than SortedList for all operations  
C) SortedList requires unique values, whereas Hashtable does not  
D) Hashtable can store only string keys, while SortedList can store any data type

**Answer:** A) Hashtable does not maintain order, whereas SortedList maintains sorted order

**4. What is the Last-In, First-Out (LIFO) collection class in C#?**

A) Queue  
B) Stack  
C) Hashtable  
D) SortedList

**Answer:** B) Stack

**5. How does a Queue collection operate in C#?**

A) First-In, First-Out (FIFO)  
B) Last-In, First-Out (LIFO)  
C) Random Access  
D) Based on Key-Value pairs

**Answer:** A) First-In, First-Out (FIFO)

**6. Which method is used to add an item to an ArrayList in C#?**

A) Insert()  
B) Add()  
C) Push()  
D) Enqueue()

**Answer:** B) Add()

**7. What does the BitArray class represent?**

A) An array of Boolean values  
B) An array of bits stored as 1s and 0s  
C) A dynamically sized array  
D) A fixed-size array of integers

**Answer:** B) An array of bits stored as 1s and 0s

**8. What is the purpose of the ContainsKey() method in a Hashtable?**

A) Checks if a specific value exists in the Hashtable  
B) Checks if a specific key exists in the Hashtable  
C) Removes a key-value pair from the Hashtable  
D) Sorts the Hashtable elements

**Answer:** B) Checks if a specific key exists in the Hashtable

**9. Which method is used to remove the last inserted item in a Stack?**

A) Remove()  
B) Dequeue()  
C) Pop()  
D) Clear()

**Answer:** C) Pop()

**10. How can you retrieve and remove the first element from a Queue?**

A) Pop()  
B) RemoveFirst()  
C) Dequeue()  
D) GetFirst()

**Answer:** C) Dequeue()