

- f. Code that targets the Common Language Runtime is known as
 (A) Unmanaged (B) Distributed
 (C) Legacy (D) Managed Code
- g. Which of the following is the root of the .NET type hierarchy?
 (A) System.Object (B) System.Type
 (C) System.Base (D) System.Root
- h. Which type of delegate allows you to create a single delegate that can point to numerous methods that receive objects related by classical inheritance?
 (A) Covariance (B) Contra variance
 (C) Relaxed Delegates (D) Generic Delegates
- i. Which is not the Possible Constraints for Generic Type Parameters
 (A) struct (B) new
 (C) NameOfBaseClass (D) NameOfDerivedClass
- j. Which are the interfaces supported for LinkedList<T>
 (A) IDictionary & IEnumerable (B) IEnumerable & ICollection
 (C) IDictionary & ICollection (D) Only IDictionary

Answer any FIVE Questions out of EIGHT Questions.
Each question carries 16 marks.

- Q.2** a. List and explain core features of .NET (8)
- b. Explain in brief the building blocks of the .NET Platform. (8)
- Q.3** Explain the following (16)
- (i) for-each (ii) unchecked keyword
 (iii) new operator (iv) ?? operator
- Q.4** a. Summarize the core distinctions between value types and reference types. (8)
- b. Explain with example static constructor and rules associated in defining static constructor. (8)
- Q.5** a. Explain the significance of following in C#. (8)
- (i) sealed keyword (ii) virtual keyword
- b. Explain abstract classes and abstract methods with example program. (8)
- Q.6** a. Explain the select members of the System.GC type in detail. (8)
- b. Briefly describe, how to override the System.Object.Finalize() with an example program? (8)

- Q.7** a. Explain multiple inheritance with interface types with an example program. (8)
- b. Explain the following
- | | | |
|------------------|------------------|-----|
| (i) IEnumerator | (ii) IEnumerable | |
| (iii) ICloneable | (iv) IComparable | (8) |
- Q.8** a. Explain Commonly used Classes of System.Collections and Key Interfaces Supported by Classes of System.Collections. (8)
- b. Explain the working with Queue <T> class with an example program. (8)
- Q.9** a. Describe the System.MulticastDelegate and System.Delegate Base Classes along with its select members. (8)
- b. Explain Anonymous method and accessing local variables in anonymous methods with an example. (8)