

Ans 1 It is a combination of class and interface which is used to store and manipulate the data in the form of objects.

Ans 2 ArrayList:- It ~~stores~~ dynamic array  
It provide random access  
It take less memory

LinkedList:- It use double linklist  
It doesn't provide random access  
It take more memory.

Ans 3 Iterator:- It is use to traverses the elements in the following direction only.

It can be used in list, set and queue

The iterator can only perform a remove operator while traversing the collection.

ListIterator:- It is used to backward & forward in direction.

It can be used in list only.

It perform add, remove & set.

Ans 4 Iterator:- It can traverse the legacy & non-legacy collection.  
The iterator is fail-fast

It is slower

Enumeration:- It can traverse the legacy elements

It is fail-fast

It is faster than iterator

Ans 5 HashSet:- It is a class which implements the set interface.  
★ It don't allow duplicate element.  
★ We can't use index base insertion  
★ order of element is not provided.

\* It follows hashing which follows hashtable.

TreeSet:- \* It follows the Binary Search Tree (BST)

- \* order of insertion is provided.
- \* TreeSet is a class which implements Sorted Set which extends Set interface
- \* Duplicacy is not permitted
- \* Index based insertion is not allowed.

Ans 5 List:- \* It is an interface which extends Collection interface which extends Iterable interface.

- \* In List we have class like ArrayList, LinkedList, Vector and Stack.
- \* List classes implement duplicate elements.

Set:- \* It is an interface which extends Collection interface which extends Iterable interface.

- \* In Set we have class like HashSet, LinkedHashSet, TreeSet

\* It doesn't allow duplicate elements.

Ans 7 Array:- \* Array is faster than ArrayList

- \* It stores Primitive data type and object.
- \* Size of array is fixed
- \* It stores only homogeneous data type

ArrayList:- \* ArrayList is slower than Array

- \* It stores only object
- \* It stores homogeneous and heterogeneous data type.
- \* The size of ArrayList is not fixed.