**Advance Java Exam Theory questions:**

**Q1.Array List:** a. It is growable in size by nature.

b.Array list is used for frequent fetching and storing of elements.

c.it maintains insertion order.

d.it allows multiple null values in it.

e.Dupication of elements is allowed.

**Linked List:** a.It is also growable in nature.

b.It is used when frequent addition and removing of elements.c.

It also allows multiple null values.

d.insertion order is preserved.

**Q2.Arrays:**

a.It has fixed storage size.

it can be used for storing same type of elements.

**Collections:**

a. It does not has fixed storage size.

b. it can be used for storing group of objects in different types as a single entity.

**Q3.Hash set:**

a. It does not maintain any order.it comes under set inetrface. It elimeinated duplicates while storing. It does not allows any null key.

**Hash map:**

a It also does not maintain any order.it comes under map interface.it stores in the form of key value pair. It allows one null key and multiple null values.

**Q4. Hash set and linked Hash set maintains uniqueness in its entry.**

Hash set: It does not maintain any order while storing the elements.And when we iterate through hash set the order is unpredictable.

Linked hash set: It maintains insertion order of the elements.And when we iterate through linked ahsh set the order is maintained.

**Q5.**

**Q6.Linked List:**

a. It stores with the previous element and next element index in it.

b. It is used when there is frequent addition and removal of elements inbetween.

c. It maintains insertion order.

d.It allows duplicate values.

e.It is also growable in nature. It uses doubly linked list to store the elements.

**Q9. Synchronisation:** Means it holds the particular thread and does not allow multi-processing with that same thread.

**Q10.wait():** It will make the exceution to wait until and wait until another thread does not call the notify() or notifyAll() method..

**Sleep():** it will make the execution pause and continues after that.

**Notify():** Notify is used to unblock the thred in waiting state.

**Notify All():** Notify All is used to unblock all threads in waiting state.