Q) Object Pooling

Q) How can we override JVM Object Pooling and create our own Pooling

Q) Object Pooling Default Parameters

Q) If own Object Pool is created how it will communicate to C?

Q) JVM Architecture

Q) How GC works?

Q) Difference between String and String Buffer.

Q) How you make your own class as immutable? Properties of your class Integer, String, Date, Your own Employee class, HashMap.

Q) Exceptions

Q) How to create your user defined Exception (Checked and Unchecked)?

Q) Deep cloning and Shallow cloning (How to deep clone your object. Ex: Employee has department as one of the object)

Q) Fail fast iterator and fail safe iterator.

Q) HashMap and Synchronized HashMap

Q) How ArrayList/HashMap/HashSet internally implemented

Q) Concurrent HashMap works

**Q) Priority Queue and Deque**

**Q) Cyclic barrier and Countdown latch.**

Q) Can we serialize static methods in threads.

Q) Use of volatile variable in Threads.

Q) Creation of threads (No of ways and better way).

Q) Deadlock program (Example).

Q) Producer and consumer using wait and notify. Blocking Queue.

Q) Serialization (If Super class is not serialized, subclass serialized, then will that class compiles)

Q) Use of SerialVersionId

Q) How will use user-defined annotations and when you will use them?

Q) Generics (Extends and Super)

Q) Searching techniques.

Q) User defined objects in TreeMap (If objects doesn’t implement Comparator or Comparable).

Q) TreeMap implementation

Q) Differences between Iterator and ListIterator

Q)Differences between List, Set and Map

Q) How to get the sub Map from TreeMap

Q) How to remove repeated elements from ArrayList?

Q) Synchronized hashmap v/s Hash table

Q) Memory leakage in substring.

**Q) micro services**

Q) Differences between each collection

Q) How to convert HashMap to ArrayList

Q) difference between iterator and enumerator

Few more programs

Programs:

* Find middle element in a linked list
* Removing duplicates in String using best Approach
* Reversing a string using recursive
* Prime Number using recursive
* Count how many repeated characters in a string
* Finding nth highest in a listed Array
* Quick Sort and Merge Sort.
* Fibonacci Series
* Palindrome

Spring:

* Spring IOC
* Autowiring
* How to define inheritance Parent child relationship?
* Bean Scopes
* Creation of bean (Lazy or eagerly)
* How Spring identifies a controller
* Difference between Application-context and Spring dispatched servlets
* How to configure multiple view resolvers
* Transactions
* Spring boot
* MVC Architecture
* **Programmatic and Declarative Transaction Management.**
* **Cohesion**

Design Patterns:

* Design Patterns in Spring
* How many ways to create singleton design pattern
* Builder design Pattern, Factory and Abstract Factory
* Observer DP, Decorator, Façade, Fly weight DP(Spring)

Hibernate:

* Load and Get

(get hits DB, but load gets proxy.)

* Use of inverse attribute
* Different fetching strategies
* Default value of lazy
* **Use of projections**
* Versioning
* Relations
* How to handle extra columns in intermediate tables of Many to Many.
* Second and Query level cache implementation (Timestamp cache).

SQL:

* Performance
* Joins
* Triggers
* Index
* Criteria filter Queries
* Procedures

Static block loading.

Java versions 1.5,1.6,1.7

String buffer and String builder.

String.interm()

Final and Static

Shutdown hook.

Daemon thread

Join on Threads

Loaders

Localization

Internalization

Externalization

Rest and SOAP

Collection Quiz:

<http://www.javatpoint.com/LinkedList-in-collection-framework>

<https://www.youtube.com/watch?v=O-Z0_2xt7cY>

Sorting Techniques:

<http://www.java2novice.com/java-sorting-algorithms/>

Merge Sort:

<http://javahungry.blogspot.com/2013/06/java-sorting-program-code-merge-sort.html>

<https://www.youtube.com/watch?v=TzeBrDU-JaY>

Bubble Sort:

<http://www.programmingsimplified.com/java/source-code/java-program-to-bubble-sort>

Insertion Sort:

<http://javahungry.blogspot.com/2013/06/java-sorting-program-code-insertion-sort.html>

Concurrency vs Synchronization

FLAMES Program

Logical Questions

Serialization through XML

Why deep cloning?

Parking slot - Number of classes to be created

Architecture for an Application.

Parking lot example:

<https://coderanch.com/t/628047/patterns/Parking-Lot-Design>

CISCO:

Q) Why Java? And what makes different from other languages?

Q) Object class

Q) Substring Combinations

Q) Any Tree Algorithm

Q) Why to use Primitive types in Java?

Q) Permutations

Q) Why String is immutable?

Q) Why Java doesn’t support inheritance? – Diamond Problem

Q) What are the components available in WSDL?

Q) Difference between Application Context and Session Factory

Q) Agile related questions

Q) How to inject properties file into spring xml.

Q) Can we override static method —No, we cannot.

Web Services Question and Answers

<http://www.tutorialspoint.com/webservices/webservices_interview_questions.htm>

<http://www.javatpoint.com/web-services-interview-questions>

<http://www.journaldev.com/9193/web-services-interview-questions-soap-restful>