Please focus on these topics.

Core Java:

                                Java Collections/Data Structures

                                                                — Various Collections in Java Set, Map, List and Usage of them and comparison and considerations in using them

                                                                —  Tree map, TreetSet and Concurrent Maps Understanding, Usage and Benefits

                                                                —  Performance implications of wrong usage of collections

                                                                — Usage of Lists during ORM operations and DB interactions

                                Multi-Threading

                — Concept of threads and possible issues that can arise out

                                                                — How threads communicate and how to resolve concurrency issues

                                                                —  How threads play role in web container and light weight containers like Spring

                                Core Programming

                                                                — Different Java keywords and application

                                                                — Classes and Interfaces

                                                                — oops concepts and relevance to Java

                                                                — Custom Exceptions , Run Time Exceptions

Spring framework:

                                                                — Spring Core

                                                                —  How Dependency Injection helps and what are the advantages of using Spring and what are the different cross cutting concerns where Spring can be used

                                                                — What are the different scopes in injecting bean and what is the life cycle of bean with respect to scope

                                                                — Spring Core configuration and usage in applications

                                                                — Sprint Aspects and how can it be used for transactions and logging

                                                                — Spring DAO and comparison with Hibernate or any other ORM framework

Web services:

                — Rest Services vs Soap Services

                — How Rest Services are created and why are they preferred

                — In what context SOAP services are helpful

                — How to create Soap Services

                — Integrating Rest and Soap services within an application and developing Rest Client and Service or Soap Client or Service

                — How is a service different from HTTP Post or GET methods

                — What role http headers and response codes play

1) About You

2) Explain the architecture of a complex project that you handled

3) What kind of architecture you design if you need to read a file with 1 million records in it. (Asked in the context of previous question)

4) In a shopping cart application when customer is selecting a preferred shipment mode selection, how do you use a RULES engine in that case.

5) How do you handle weakness in your team members

6) How do you handle weakness in you

7) Different types of Application Contexts in spring.

8) Apart from Spring core, what other modules you are aware of?

9) What ORM tools you worked on

10) Hibernate loading sequence (configuration, session factory, session, transaction, query, close transaction etc.,)

11) What are other classes where you can do String manipulation apart of String class

12) Difference of String/StringBuffer/StringBuilder

13) What is immutability, how do you achieve it.

14) Different collection interfaces in java

15) Difference between List and Set

16) LinkedList vs ArrayList

17) HashMap deep internals

18) Thread synchronization

19)​Algorithm: explain the Prime number calculation algorithm

20) Multiple Inheritance in java

21) Which one is good - Extending Thread or implementing Runnable

22) Class B is extending Class A, In Class C without extending Class B how do you achieve the functionality of Class B

23) Difference of Composition & Aggregation

24) Compare LinkedList & ArrayList

25) Out of ArrayList & LinkedList which one is faster and why

26) When you remove any element in ArrayList & LinkedList what would be the difference in terms of Performance b. How HashMap is implemented what is the   significance of hashCode

27) What is the meaning of declaring "final Employee emp = new Employee()"

28) How to get the Map's keys in sorted order

29) How do you sort HashMap values

30) explain (with algorithm & code) on how to get the N'th element from the back in a Single Linked List

31) How do you improve performance in a web application

32) Comparable vs Comparator

33) Outerjoin,InnerJoin,LeftOuterJoin,RightOuter.

34) How to join different tables and get some information.

35) How to design an application, so that it will scale properly in the future?

36) How to write Junits for application and make sure code is not having any bug.

37) How to Design loosely couple and highly cohesion technique in Application?

38) What are all different annotations available in RESTFull Webservices?

39) HTTP call how is travels to Web server (all physical entity)

40)   How to find unique character in a sentence (convert to charArray and for loop and put in set Set)

41)  Same question above now which char are duplicate (use Set.contains() and put in another list)

42)  Same question above but now do a count of duplicate aaabbbbccccc same logic as above but now instead of set use HashMap and use same contains method and increase the count

43) How do you achieve performance in Web application (static data eliminate network call) - distributed cache (Gemfire)

44) Reverse Link List

45) design system for 10000 to 1million people

46) how will you design a web service so that you don’t inventory is not undersold and over sold sale

General:  Explain your recent project & what you did

1. If there is a performance issue, where & what will you start looking at and how will you fix it ?

2. Garbage Collection Process - Explain ?

3. How is the heap arranged ?

4. Is finalize going to impact performance ? If so how ?

5. What is a string pool ?

6. When not to use ArrayList ?

6a. Scenario - If you want to insert elements at a given position in an array or arraylist but still would not want to shuffle and also not want to use the arraylists inbuilt method of add(index) , what approach will you take ?

7. What are design patterns you used ?

8. Did you use singleton ?

8a. How do you implement singleton ?

8b. Is there a simple way of defining a singleton without writing code ?

9. Which version of Spring did you use ?

 - Hash map and its working

 - final - finally - finalize

 - inheritance

 - Synchronization and multithreading

 - Data structures

 - abstract class and interface

 - Creating linked list in Java

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1. In which areas of J2EE was your experience in majorly ?

2. Your resume has a mention of OSB. Why have you used it for ?

3. What kind of exposure do you have in SOA ?

4. Have you worked in JMS ?

5. If you have to communicate between one application and another Mainframe system, what kind of a solution you would suggest ?

6. If in the same transaction you are dealing with two destinations - one to persist data to DB and another to write an object to a Queue. How will you make sure that the transaction completes as all or none i.e. successfull commit or rollback completely

7. Give scenarios where using EJB would be recommended ?

8. What is difference between Parallel Processing & Concurrency ?

9. Why is SPRING not included in J2EE ?​

Write a program to find minimum coins (5c,10c,25c,50c,75c) for a given amount

Write a progrm to add two arrays form another array for given amount.

( find at least one minimu coin another requiremnt )

A[]={A,1}

B[]={B,2}

c[]={A,B,1,2}

Write a program

Write a program to create own annotations.

what are the features jdk1.7.?

write a program for singlton.?

Struts flow.? and MVC

Spring MVC , Annotation in  in Sprng

Spring transacions AOP and REST API

Security mechanisam in SOAP and REST which one is better.

Highlever architecture and design of your application.

How can we intergrate other external systems with your webappliation.

waht are the steps to take care any urgent production issues if user given a compliannt.

what are the steps to consume a webservice and code .

what are the steps t0 develope Webservice and steps code.

what are unmodifiable and immutable collection and usage.

what is concurrentHashMap.

Thread Dealock and thread intecommunnication ,synchornization ( write a program )

Code to develop a inteface and Abstract difference between .

why static blocks and static ariables.

How can handle exceptions , create custom exeption  what are the differnet ways .

difference betweeen checked exceptions and unchekced exxception .?

Write a code for facotry design pattern.

How can we handle security using String , and other ways...in java.

Write a program to sort employee in java. ( using comparator and comparable).

what is the dfferene ween ArrayList and LinkedLsit which one is better  and why ( business Use case)

what is HashSet and TreeSet   differneces and advantages.

differnecce  between sleep and wait programs.

Write a program to increment a value and decrement a value using java. (usnig single tom)

How can we improve appliation perfomance and steps.

waht are the advantage o GIT and Maven .

maven lifecyccle.

XML

                — Understanding of XML, XSD, XSLT

                — Understanding of XML Parsers , differences and application

Hibernate

                — How is ORM useful and design of ORM

                — How can we define associations and retrieval of objects

                — Application of Hibernate concepts keeping JPA in mind