

JAVA SPRING HIBERNATE INTERVIEW QUESTION AND ANSWER FOR

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What is Hibernate used for in spring? Hibernate ORM (Object Relational Mapping) is a popular Java-based framework used for mapping an object-oriented domain model to a relational database. It provides an efficient way of storing and retrieving data from a database by mapping database tables to Java classes and vice versa.

What is the difference between Hibernate and spring Hibernate? While Hibernate is simply a library that facilitates database access, Spring is a framework that manages all aspects of a Java application and can also be used as a database access library. Together, they can be used to build powerful and efficient Java applications that are able to store and manage data effectively.

What is Hibernate in Java with example? Hibernate is java based ORM tool that provides framework for mapping application domain objects to the relational database tables and vice versa. Some of the benefits of using Hibernate as ORM tool are: Hibernate supports mapping of java classes to database tables and vice versa.

What is the difference between Hibernate and JDBC in spring boot? While JDBC is manually code-intensive, Hibernate automates many aspects of database access. Spring Data and JPA/Hibernate: Spring Data simplifies data access by providing a unified interface for various data sources. Spring Data JPA, specifically, integrates seamlessly with JPA and Hibernate, reducing boilerplate code.

What is the main advantage of Hibernate? Why use Hibernate? Hibernate reduces lines of code by maintaining object-table mapping itself and returns result to application in form of Java objects. It relieves programmer from manual handling of persistent data, hence reducing the development time and maintenance cost.

Which is faster JDBC or Hibernate? Hibernate & JDBC – both these tools are designed to facilitate accessing relational tables using Java code. Hibernate is a more efficient & object-oriented approach for accessing a database. However, when it comes to overall performance, it tends to fall a little behind as compared to JDBC.

Can I use Spring without Hibernate? Can Spring JDBC be used without an ORM like Hibernate or MyBatis? If yes, how is it done? Sure. You can use raw JDBC — construct SQL strings, send them via JDBC and get back raw ResultSets — or you can use a more sophisticated tool like my own Wrapd - the SQL Amplifier for Java.

When should I use Hibernate? Use hibernation when you know that you won't use your laptop or tablet for an extended period and won't have an opportunity to charge the battery during that time. First check to see if this option is available on your PC and if it is, turn it on.

Can I use Hibernate instead of sleep? Hibernate mode is sleep mode's more powerful cousin. It takes a similar approach but saves everything to your hard drive instead. This lets your computer shut down fully, cutting power use to zero. It's the ideal choice for longer breaks, keeping everything ready for when you return.

Can we use Hibernate without Maven? You don't need Maven to use Hibernate. Without Maven, you'll just have to download and add the jar dependencies to the project manually, which isn't hard. And you can use whichever build process you use.

What is lazy loading in Hibernate? The aim of lazy loading is to save resources by not loading related objects into memory when we load the main object. Instead, we postpone the initialization of lazy entities until the moment they're needed. Hibernate uses proxies and collection wrappers to implement lazy loading.

How to create objects in Hibernate?

What are the disadvantages of Hibernate?

What is the difference between GET and load in Hibernate? From the output it's clear that `get()` returns the object by fetching it from database or from hibernate cache whereas `load()` just returns the reference of an object that might not actually exist, it loads the data from database or cache only when you access other properties of the object.

What is caching in Hibernate? Hibernate Caching is a layer between the actual database and your application. It reduces the time taken to obtain the required data - as it fetches from memory instead of directly hitting the database. It is useful when you have to fetch the same data multiple times.

What is hibernation used for? Hibernation is a way for many creatures – from butterflies to bats – to survive cold, dark winters without having to forage for food or migrate to somewhere warmer. Instead, they turn down their metabolisms to save energy. Animals in hot climates also undergo a form of hibernation called aestivation.

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Is Hibernate required for Spring Boot? As their names suggest, these are the starting dependencies in Spring Boot. This dependency includes JPA API, JPA Implementation, JDBC, and the other necessary libraries. Since the default JPA implementation is Hibernate, this dependency is actually enough to bring it in as well.

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Yogas in Astrology: Insights from Dr. K. S. Charak's Google Books

What are Yogas in Astrology?

Yogas are specific planetary combinations in an astrological chart that indicate certain results. They represent the interactions between planets and their impact on an individual's life. Yogas can be either auspicious or inauspicious, and they can influence various aspects of life, such as career, wealth, relationships, and health.

How to Identify Yogas?

Identifying yogas requires a thorough analysis of a person's astrological chart. Factors to consider include the positions of planets in signs and houses, their mutual aspects, and the presence of specific conjunctions or oppositions. Various texts, including Dr. K. S. Charak's book "Yogas in Astrology," provide detailed descriptions and interpretations of different yogas.

Examples of Auspicious Yogas

One of the most renowned auspicious yogas is the Raja Yoga, which indicates wealth, power, and success. It is formed when the Sun, Moon, and Jupiter are in a favorable combination. Another example is the Gajakesari Yoga, which suggests financial stability, courage, and recognition. This yoga occurs when Jupiter is in a specific position relative to the Moon and an exalted planet.

Examples of Inauspicious Yogas

Some yogas are considered inauspicious and can indicate challenges or obstacles in life. The Pitra Dosha Yoga, for instance, is associated with issues related to ancestors and can lead to health problems or financial difficulties. The Sade Sati Yoga is another example, indicating a period of seven and a half years of challenges and setbacks.

Significance of Yogas in Astrology

Yogas provide valuable insights into an individual's potential and life path. They can assist astrologers in making accurate predictions and offering guidance on how to navigate different situations. By understanding the specific yogas present in a chart, individuals can gain a deeper understanding of themselves, their strengths, and areas where they may need to focus their efforts.

Zero Footprint: Behind the Scenes of Covert Military Contracts

"Zero Footprint" is a gripping narrative that exposes the hidden world of private military contractors (PMCs) and their covert operations in war zones like Syria and Libya. This explosive account unveils the truth behind these highly skilled and enigmatic operatives who work under the radar, leaving no trace of their presence.

Q: What is the significance of PMCs in modern conflicts? A: PMCs have become increasingly prevalent in international conflicts, filling the gap left by conventional military forces. They provide specialized expertise, logistical support, and discreet intelligence gathering without the political and logistical baggage of traditional armies.

Q: How do PMCs operate in secret, leaving no footprint? A: PMCs employ a range of techniques to maintain anonymity. They use non-descript vehicles, blend into local populations, and utilize technology to avoid detection and surveillance. They also operate under the cover of legitimate organizations or non-governmental groups.

Q: What are the challenges and risks involved in covert PMC operations? A: PMCs face numerous challenges, including operating in dangerous and unpredictable environments, facing potential legal repercussions, and navigating ethical dilemmas. The absence of clear rules of engagement and oversight can lead to questionable practices and accusations of war crimes.

Q: What are the long-term implications of PMCs in global conflicts? A: The rise of PMCs has raised concerns about the blurred lines between private and public military power. It can undermine the authority of states and create a situation where individual actors hold significant military capabilities outside of traditional command structures.

Q: What is the legacy of PMCs in the wake of "Zero Footprint"? A: "Zero Footprint" sheds light on the crucial but often overlooked role of PMCs in modern warfare. It highlights the need for transparency, accountability, and ethical guidelines in the rapidly evolving landscape of private military operations. The book serves as a cautionary tale about the potential dangers and complexities of outsourcing military

tasks to private contractors.

Thermodynamics Problems and Answers

Thermodynamics, the study of energy transformations and heat transfer, is a fundamental branch of physics with applications in various fields such as engineering, chemistry, and biology. Here are a few common thermodynamics problems with their answers:

1. Problem: Calculate the change in internal energy of a system that does 100 J of work on its surroundings while absorbing 150 J of heat.

Answer: $\Delta U = Q - W = 150 \text{ J} - 100 \text{ J} = 50 \text{ J}$

2. Problem: A gas undergoes an isothermal expansion from 2 L to 4 L at constant temperature of 298 K. Calculate the work done by the gas.

Answer: $W = -nRT \ln(V_2/V_1) = -(1 \text{ mole} \cdot 8.314 \text{ J/mol K} \cdot 298 \text{ K}) \ln(4 \text{ L} / 2 \text{ L}) = -500 \text{ J}$

3. Problem: Calculate the entropy change of a system that goes from an initial state of order to a final state of disorder.

Answer: Entropy is always increasing for spontaneous processes, so $\Delta S > 0$ for a system going from order to disorder.

4. Problem: A heat engine operates between a hot reservoir at 1000 K and a cold reservoir at 300 K. Calculate the maximum efficiency of the engine.

Answer: Efficiency = $1 - (T_c / T_h) = 1 - (300 \text{ K} / 1000 \text{ K}) = 0.7$

5. Problem: A Carnot cycle, an ideal heat engine, absorbs 500 J of heat from the hot reservoir and rejects 300 J to the cold reservoir. Calculate the heat transferred to the environment.

Answer: Heat transferred to environment = $Q_c = Q_h - W = 500 \text{ J} - (500 \text{ J} - 300 \text{ J}) = 200 \text{ J}$

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