



Assessment

Assessment for Java, Spring Hibernate and SQL in form of MCQ's, code snippets and fill in the blanks. Section 3 on code snippets have 3 points each

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1. What is a Java class?

- ☐ A keyword used to define an object
- ☐ A blueprint for creating objects
- ☐ An instance of an object
- ☐ A method that returns a value



2. What is the difference between an abstract class and an interface

- ☐ An abstract class can have constructors, while an interface cannot.
- ☐ An abstract class can have non-abstract methods, while an interface cannot
- ☐ An interface can have instance variables, while an abstract class cannot
- ☐ An interface can have default method implementations, while an abstract class cannot.

3. What is the difference between a static method and an instance method?

- ☐ A static method can be overridden, while an instance method cannot.
- ☐ A static method is called on an object, while an instance method is called on a class.
- ☐ A static method can access instance variables, while an instance method cannot.
- ☐ A static method cannot be declared as private, while an instance method can.

4. What is inheritance in Java

- ☐ A mechanism that allows a class to hide properties and methods of another class
- ☐ A mechanism that allows a class to access properties and methods of another class
- ☐ A mechanism that allows a class to inherit properties and methods from another class
- ☐ A mechanism that allows a class to override properties and methods of another class



5. What is polymorphism in Java

- ☐ A mechanism that allows a class to have multiple instance variables with the same name
- ☐ A mechanism that allows a class to have multiple constructors
- ☐ A mechanism that allows a class to have multiple subclasses
- ☐ A mechanism that allows a class to have multiple methods with the same name

6. What is Spring Framework?

- ☐ An operating system
- ☐ A programming language
- ☐ A database management system
- ☐ A web application framework

7. What is dependency injection in Spring?

- ☐ A design pattern that allows objects to be created without knowing the details of their dependencies
- ☐ A design pattern that allows objects to be created with their dependencies specified at runtime
- ☐ A design pattern that allows objects to be created with their dependencies specified at compile time
- ☐ A design pattern that allows objects to be created with their dependencies specified in a configuration file



8. What is Hibernate?

- ☐ A database management system
- ☐ object-relational mapping (ORM) tool
- ☐ . A programming language
- ☐ A web application framework

9. What is the purpose of Hibernate in Java applications?

- ☐ provide an interface between Java objects and a relational database
- ☐ provide an interface between Java objects and a file system
- ☐ To provide an interface between Java objects and a network socket
- ☐ To provide an interface between Java objects and a non-relational database

10. What is SQL?

- ☐ A language for managing relational databases
- ☐ A programming language for web development
- ☐ A markup language for web development
- ☐ . A database management system

11. What is a primary key in a database?

- ☐ A column that allows NULL values
- ☐ A column that contains only unique values
- ☐ A column that is used to join two tables
- ☐ A column or set of columns that uniquely identifies each row in a table



12. What is the purpose of the keyword "static" in Java?

- ☐ It is used to create a new instance of a class.
- ☐ It is used to indicate that a variable or method belongs to instances of the class, not to the class itself.
- ☐ It is used to indicate that a variable or method belongs to the class, not to instances of the class.
- ☐ None of the above.

13. What is the difference between a join and a subquery in SQL?

- ☐ A join is used to retrieve data from one table based on a condition from another table, while a subquery is used to combine data from two or more tables based on a related column.
- ☐ A join is used to retrieve data from one table based on a condition from another table, while a subquery is used to retrieve data from multiple tables based on a related column.
- ☐ None of the above.
- ☐ A join is used to combine data from two or more tables based on a related column, while a subquery is used to retrieve data from one table based on a condition from another table.

14. What is the purpose of the "SELECT" statement in SQL?

- ☐ . It is used to insert data into a table.
- ☐ None of the above.
- ☐ It is used to update data in a table.
- ☐ It is used to retrieve data from one or more tables.



15. What is a "foreign key" in SQL?

- ☐ A column in a table that is used to join multiple tables together.
- ☐ None of the above.
- ☐ A column in a table that stores a unique identifier for each row in the table.
- ☐ A column in a table that references the primary key of another table.
- ☐ Other: _____

16. What is encapsulation in object-oriented programming?

- ☐ The ability of a class to have public variables and private methods to access and modify them.
- ☐ The ability of a class to have private variables and public methods to access and modify them.
- ☐ None of the above.
- ☐ The ability of a class to have both public variables and methods to access and modify them.

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