# PT-4 -Java

1. 1. What is the purpose of Annotations in Java?

* ○ Code encryption
* ○ Code documentation
* ○ Code compilation
* ○ Code generation

1. 2. Which Java feature allows inspection of classes and methods?

* ○ Introversion
* ○ Reflection
* ○ Inspection
* ○ Introspection

1. 3. JDBC is used for interacting with:

* ○ JavaScript
* ○ Databases
* ○ Graphics
* ○ Networks

1. 4. Which Java class is typically used for character stream I/O?

* ○ FileInput
* ○ BufferStream
* ○ FileReader
* ○ InputStream

1. 5. What does "volatile" keyword ensure in Java Multithreading?

* ○ Synchronisation
* ○ Caching
* ○ Atomic operations
* ○ Thread safety

1. 6. What is a wildcard used for in Generics?

* ○ Denoting an error
* ○ Representing null
* ○ Representing unknown
* ○ Matching any type

1. 7. What symbol is used to denote annotations in Java code?

* ○ @
* ○ #
* ○ &
* ○ %

1. 8. Which Java class provides methods for querying and manipulating databases?

* ○ QueryStatement
* ○ DatabaseAccess
* ○ SQLConnector
* ○ PreparedStatement

1. 9. In Java, which exception is thrown when a file is not found?

* ○ FileException
* ○ NotFoundException
* ○ IOException
* ○ FileNotFoundException

1. 10. What is the maximum number of threads a Java program can create?

* ○ 256
* ○ No limit
* ○ 1024
* ○ Limited by memory

1. 11. What is the purpose of a bounded wildcard in Generics?

* ○ Allows any type
* ○ Restricts type
* ○ Matches any type
* ○ Matches specific type

1. 12. What method is used to retrieve all annotations at runtime?

* ○ getAnnotations
* ○ fetchAnnotations
* ○ obtainAnnotations
* ○ retrieveAnnotations

1. 13. Which interface is the foundation of JDBC?

* ○ JDBCDriver
* ○ DBConnector
* ○ DBInterface
* ○ DataSource

1. 14. Which class is commonly used for reading character-based input?

* ○ InputStreamReader
* ○ FileReader
* ○ InputBufferedReader
* ○ BufferedReader

1. 15. What is a thread deadlock in Java Multithreading?

* ○ Thread exhaustion
* ○ Thread conflict
* ○ Thread blocking
* ○ Thread suspension