**1. What is Abstraction in Java?**

Ans: [Abstraction in Java](https://www.scientecheasy.com/2020/05/java-abstraction.html/) is a technique by which we can hide the data that is not required to users. It hides all unwanted data so that users can work only with the required data.

**2. How to achieve or implement Abstraction in Java?**

Ans: There are two ways to implement abstraction in java. They are as follows:

a) Abstract class (0 to 100%)  
b) Interface (100%)

**3. What is Abstract class in Java? How to define it?**

Ans: An abstract class in java is a class that is declared with an abstract keyword.

**4. What is the difference between abstract class and concrete class?**

Ans: There are mainly two differences between an abstract class and concrete class. They are:

a) We cannot create an object of abstract class. Only objects of its non-abstract (or concrete) sub classes can be created.

b) It can have zero or more abstract methods that are not allowed in a non-abstract class (concrete class).

**5. What is Abstract in Java?**

Ans: Abstract is a non-access modifier in java that is applicable for classes, interfaces, methods, and inner classes.

**6. Can abstract modifier applicable for variables?**

Ans: No.

**7. What is Abstract method in Java?**

Ans: A method which is declared with abstract modifier and has no implementation (means no body) is called abstract method in java.

It does not contain any body. It has simply a signature declaration followed by a semicolon.

**8. Can an abstract method be declared as static?**

Ans: No.

**9. Can an abstract method be declared with private modifier?**

Ans: No, it cannot be private because the abstract method must be implemented in the child class. If we declare it as private, we cannot implement it from outside the class.

**10. What is Concrete method in Java?**

Ans: A concrete method in Java is a method which has always the body. It is also called a complete method in java.

**11. When to use Abstract class in Java?**

Ans: An abstract class can be used when we need to share the same method to all non-abstract sub classes with their own specific implementations.

**13. Is abstract class a pure abstraction in Java?**

Ans: No, It provides 0 to 100% abstraction.

**14. Is it possible to create an object of abstract class in Java?**

Ans: No. It is not possible but we can create an object of its subclass.

**15. Is it possible that an abstract class can have without any abstract method?**

Ans: Yes.

**16. Can an abstract class have constructor?**

Ans: Yes.

**17. Is abstract class allow to define private, final, static, and concrete methods?**

Ans: Yes.

**18. Is it possible to achieve multiple inheritance through abstract class?**

Ans: No.

**19. Can we make an abstract class without abstract keyword?**

Ans: No, a class must be declared with abstract keyword to make an abstract class.

**20. Can we define an abstract method inside non-abstract class (concrete class)?**

Ans: No, we cannot define an abstract method in non-abstract class.

**20. Can we define an abstract method inside non-abstract class (concrete class)?**

Ans: No, we cannot define an abstract method in non-abstract class.

**23. What will happen if we do not override all abstract methods in subclass?**  
Or, what will happen if we do not provide implementation for all abstract methods in subclass?

Ans: Java compiler will generate compile time error. We will have to override all abstract methods in subclass.

**24. What is the difference between Abstraction and Encapsulation?**

Ans: Abstraction hides the implementation details from users whereas, [encapsulation](https://www.scientecheasy.com/2020/07/encapsulation-in-java.html/) wraps (binds) data and code into a single unit.

**25. Why abstract class has constructor even though you cannot create object?**

Ans: We cannot create an object of abstract class but we can create an object of subclass of abstract class. When we create an object of subclass of an abstract class, it calls the constructor of subclass.

This subclass constructor has a super keyword in the first line that calls constructor of an abstract class. Thus, the constructors of an abstract class are used from constructor of its subclass.

If the abstract class doesn’t have constructor, a class that extends that abstract class will not get compiled.

Q.Can we define a parameterized constructor in an abstract class in Java?