Misconceptions

Module-4	
File input/output (I/O) procedures are only appropriate	
for manipulating textual files.	
The File I/O operations in Java provide the capability	
to manage a diverserange of file types, including	
binary files in addition to text files.	
The use of multithreading consistently enhances the	
performance of aprogramme.	
Although multithreading has the potential to enable	
concurrent execution and provide performance	
improvements, this outcome is not always guaranteed.	
The lack of effective thread management or the	
presence of activities that arenot conducive to parallel	
execution may result in limited performance	
improvements and perhaps lead to performance worse	
owing to associated overheads.	
Generics are a sophisticated approach to doing	
tasks that mightotherwise be achieved using	
object class types.	

Correct	Generics have the advantage of type safety, which
Explanation	guarantees that compile-time checks are in place to
	avoid any possible runtime class casterrors. They enable
	developers to produce code that is clearer, more
	manageable, and less prone to errors.
Misconception 4.	Annotations in the Java programming language serve
	as comments anddo not have any impact on the
	execution of the code.
Correct	Annotations play a crucial role in providing
Explanation	information that may have influence over the
	treatment of certain code components by
	frameworks, libraries, and even the Java compiler.
	Comments in contemporary Java programming
	provide a crucial function that extends beyond mere
	annotations.
Misconception 5.	JDBC represents the exclusive method for
	establishing connections between Java
	programmes and databases.

Correct Explanation

The Java Database Connectivity (JDBC) is a widely accepted and standardised application programming interface (API) that facilitates the connection between Java programming language and relational databases. Nevertheless, it is worth noting that there are other frameworks and object-relational mapping (ORM) technologies, such as Hibernate, which may effectively streamline the process of establishing connections with databases, typically by leveraging or abstracting the underlying JDBC technology.