



## **SoulShift - Educational Q&A Platform**

### **General Questions**

Practice Questions



---

**Q1. In a closed system, if the internal energy increases, what must happen to the heat and work?**

- A. Heat must be added or work must be done on the system
- B. Heat must be removed or work must be done by the system
- C. Both heat and work must be removed
- D. Neither heat nor work affects internal energy

*Solution: In a closed system, if the internal energy increases, it means that heat must be added or work must be done on the system.*

**Q2. What is the main advantage of using a Carnot engine?**

- A. It operates at maximum efficiency
- B. It is easy to construct
- C. It requires no fuel
- D. It can operate in any environment

*Solution: The main advantage of using a Carnot engine is that it operates at maximum efficiency, as it is an idealized engine.*



