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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.

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