

Thermodynamics

Question Bank

Essays Questions: 10 M

1. State and explain 1st law of thermodynamics
2. Derive Kirchoff's equation and mention its applications
3. Show that $PV^\gamma = \text{Constant}$
4. State and explain Second law of thermodynamics.
5. Explain Joule- Thomson effect
6. Explain Carnot cycle.
7. Show that $C_p - C_v = R$
8. Write about the concept of entropy. Explain about the entropy change in a reversible and irreversible processes

Short answer questions: 5 M

1. Prove that $C_p - C_v = R$
2. Write about Entropy
3. State and explain Joule- Thomson Effect
4. Write briefly about enthalpy and Internal energy
5. State and explain about second law of thermodynamics