

UNIT - VIII : THERMODYNAMICS (5m) A+ Coaching Point -DMR

1. What is an adiabatic process? Derive an expression for the work done during adiabatic expansion of a gas. (3m)
2. Explain the principle and working of a refrigerator with the help of a block diagram. (3m)
3. Derive the equation of adiabatic process. (3m)
4. What do you mean by reversible and irreversible process, giving examples. (3m)
5. What is a heat engine. What are its essential features and efficiency of a heat engine. (3m)
6. What is the efficiency of a Carnot engine? on what factors does it depend upon? (3m)
7. Define thermal equilibrium. State zeroth law of thermodynamics. (2m)
8. State 1st law of thermodynamics. (1m)
9. State a mathematical relation between heat energy, work done and change in internal energy of a system. (1m)