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**AE 8301 Aero Engineering Thermodynamics**

**Important 2mark questions**

**Unit I**

1. State the conditions for thermodynamic equilibrium of a system.
2. What is meant by the Quasi-Static process?
3. Define the Perpetual Motion of the first kind.

**Unit II**

1. Give some examples of ideal reversible processes.
2. Summarize the characteristics of entropy.
3. What is a thermal energy reservoir? Give examples.

**Unit III**

1. Identify the processes in the Stirling cycle.
2. Distinguish between Otto and Diesel cycle.
3. Determine the entropy change for a reversible isochoric process.

**Unit IV**

1. How to improve the thermal efficiency of the Rankine cycle?
2. State the ways to measure the dryness fraction of steam.
3. What is meant by sublimation? Illustrate with an example.

**Unit V**

1. List the characteristics of black body.
2. List the benefits of thrust augmentation in a jet engine.
3. Comment on critical thickness of insulation.