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AE 8402 Aircraft Systems and Instruments

Important 13mark questions

Unit I

1. Explain the working principle and operation of landing gear retraction system with neat sketch.
2. Explain with a neat sketch, the basic hydraulic system with power driven Pump.

Unit II

1. Explain in detail about the working and the advantage of powered Assisted Control System.
2. Explain the principle and operation of 'autopilot system' with a neat sketch.

Unit III

1. Explain the lubrication system for a jet engine with neat sketch.
2. Explain the working principle of a gas turbine engine 'Air starting system' with a neat sketch.

Unit IV

1. Explain the air cycle cooling system and vapor-cycle cooling system of an aircraft with necessary diagrams.
2. Explain Boot strap air cycle system operation with neat sketches.

Unit V

1. Explain the following air data system with a neat diagram:
 - (i) Altimeter
 - (ii) Airspeed indicators.
2. Explain the various types of 'Gyroscopic instruments' used in airplanes.