Test 1 Study Guide

The test questions will come from the lectures, the AIM, the IFH, the IPH and some sampling from the AKT including but not limited to the ones we have gone over in class

1. Logging instrument time
2. Instrument currency including time frame, requirements, and IPC
3. Airspace – dimensions, equipment, pilot, weather and communication requirements
4. VOR specifications, service volumes, how the signal works
5. VOR radials, including reading, understanding, interpreting orientation (AKT questions)
6. VOR accuracy checks, reading the CDI, ambiguity indicator, flags – when and why
7. All three Wave types, details about each
8. Rule of 60 both rule of thumb and equation method
9. RMI - how it works, how to read it and the (AKT questions)
10. NDB/ADF, magnetic and relative bearing definitions
11. Difference between loop and sense antennas
12. Definitions of E field, H field, null point, ADF modes, tracking and homing
13. Steps for intercepting bearings
14. NDB rules
15. Quadrantal error
16. DME – how the signal works, how the tuning works, DME errors including slant range
17. GPS – the constellation, great circle routes, components, scale sensitivity, GBAS, WAAS
18. How the signal works, Trilateration, number of satellites needed
19. RAIM checking – how its accomplished, protocol for flying with RAIM messages
20. ILS basic components, optional components
21. ILS categories, coverage volume, identification
22. Marker beacons, colors, aural tones, location of each, approach lighting systems
23. How the signal works for localizer and glideslope
24. ILS errors
25. SDF specifications
26. LDF specifications