

AIRPLANE QUESTIONNAIRE

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA.

1. Approved fuel grades and colors are: _____
2. Location/capacity of each fuel tank is: _____
3. Total usable fuel under all flight conditions is _____ gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 1-hour reserve is _____ hours.
5. What make and grade oil is used? Winter: _____ Summer: _____
6. Oil capacity is _____ quarts. Minimum oil quantity for take off is _____ quarts.
7. Minimum oil pressure is _____ psi. Maximum oil pressure is _____.
8. Maximum oil temperature is _____ degrees (F or C) _____.
9. Magnetos are checked at _____ RPM. RPM drop should not exceed _____ RPM on either magneto or _____ RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are _____ and _____ in/Hg.
11. Maximum gross takeoff weight is _____ pounds. Empty weight is _____ pounds.
Useful load is _____ pounds. Maximum landing weight is _____ pounds.
12. Baggage compartment locations/weights are: _____
13. Give the IAS at maximum gross weight for:
 - a. V_a (maneuvering speed). _____
 - b. V_{so} (stall, landing config, power. off). _____
 - c. V_{sl} (stall, cruise config, power. off). _____
 - d. V_y (best rate of climb, sea level). _____
 - e. V_x (best angle of climb, sea level). _____
 - f. V_{mc} (minimum control speed – multi-engine only). _____
 - g. Best glide speed. _____
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff.

 - b. Fire during cranking and engine fails to start.

 - c. Engine fire in flight.

 - d. Electrical fire in flight.

Airplane Questionnaire (Continued)

15. Normal takeoff flap setting is _____, short field takeoff setting is _____, and soft field takeoff flap setting is _____.
16. Maximum demonstrated takeoff/landing crosswind component is _____ knots.
17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.
Find: Total takeoff distance to clear a 50-foot obstacle: _____
18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.
Find: Total landing distance to clear a 50-foot obstacle: _____
19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? _____