

AIRPLANE QUESTIONNAIRE

Name: _____ Flight Instructor: _____ Date: _____

Type/Model Aircraft: _____

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. The flight instructor will review and grade the questionnaire.

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_{s1} (stall, cruise config, power. off). _____
 - d. V_y (best rate of climb, sea level). _____
 - e. V_x (best angle of climb, sea level). _____

f. Vmc (minimum control speed – multiengine 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.

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 = 86o F; Runway 27; Wind 320o 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 = 68o 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 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? _____