

## AIRPLANE QUESTIONNAIRE

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ CAPID: \_\_\_\_\_  
Unit: \_\_\_\_\_ Date: \_\_\_\_\_  
Check Pilot: \_\_\_\_\_ Grade: \_\_\_\_\_ CAPID: \_\_\_\_\_  
Score: \_\_\_\_\_ 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 check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

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 45-minute 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.  $V_{mc}$  (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.  
\_\_\_\_\_  
\_\_\_\_\_

**Continue on Reverse**

**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? \_\_\_\_\_