

## AIRCRAFT QUESTIONNAIRE

Name \_\_\_\_\_ Grade \_\_\_\_\_ CAPSN \_\_\_\_\_ Unit \_\_\_\_\_ Date \_\_\_\_\_  
Check Pilot \_\_\_\_\_ Grade \_\_\_\_\_ CAPSN \_\_\_\_\_ Score \_\_\_\_\_ Type/Model Acft \_\_\_\_\_

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 takeoff is \_\_\_\_\_ quarts.
7. Minimum oil pressure is \_\_\_\_\_ psi. Maximum oil pressure is \_\_\_\_\_ psi.
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/lig.
11. Maximum gross takeoff weight is \_\_\_\_\_ pounds. Empty weight is \_\_\_\_\_ pounds.
12. Useful load is \_\_\_\_\_ pounds. Maximum landing weight is \_\_\_\_\_ pounds.
13. Baggage compartment locations/weights are: \_\_\_\_\_
  - a. Give the IAS at maximum gross weight for: \_\_\_\_\_
  - b. Va (maneuvering speed) \_\_\_\_\_
  - c. Vso (stall, landing config, power off) \_\_\_\_\_
  - d. Vs I (stall, cruise config, power off) \_\_\_\_\_
  - e. Vy (best rate of climb, sea level) \_\_\_\_\_
  - f. Vx (best angle of climb, sea level) \_\_\_\_\_
  - g. Vmc (minimum control speed - multi-engine only) \_\_\_\_\_
  - h. Best glide speed \_\_\_\_\_
14. Give the immediate action/memory items for:
  - a. Engine failure immediately after takeoff \_\_\_\_\_
  - b. Fire during cranking and engine falls 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 = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and 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? \_\_\_\_\_