

AIRPLANE QUESTIONNAIRE

Name: _____ Grade: _____ CAPID: _____
Unit: _____ Date: 1/26/2006
Check Pilot: OHWG/DO Grade: _____ CAPID: _____
Score: _____ Type/Model Aircraft: N8323E C182R

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: 100LL (Blue), 100 (Green)
2. Location/capacity of each fuel tank is: Wing Tanks 46 gal/side, 92 gal total
3. Total usable fuel under all flight conditions is 88 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 5.9 hours.
5. What make and grade oil is used? Winter: Exxon Elite 20W50 Summer: Exxon Elite 20W50
6. Oil capacity is 13 quarts. Minimum oil quantity for take off is 9 quarts.
7. Minimum oil pressure is 10 psi. Maximum oil pressure is 100.
8. Maximum oil temperature is 240 degrees (F or C) F.
9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2400 and 23 in/Hg.
11. Maximum gross takeoff weight is 3100 pounds. Empty weight is 1863 pounds.
Useful load is 1237 pounds. Maximum landing weight is 2950 pounds.
12. Baggage compartment locations/weights are: Aft of Rear Seat/ A - 120 lb, B - 80 lb, 200 lb combined
13. Give the IAS at maximum gross weight for:

a. Va (maneuvering speed). <u>111 Kts</u>	e. Vx (best angle of climb, sea level). <u>59 Kts</u>
b. Vso (stall, landing config, power. off). <u>40 Kts</u>	f. Vmc (minimum control speed – multi-engine only). <u>N/A</u>
c. Vs1 (stall, cruise config, power. off). <u>50 Kts</u>	
d. Vy (best rate of climb, sea level). <u>81 Kts</u>	g. Best glide speed. <u>76 Kts</u>
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff.
Airspeed 75KIAS(Flaps UP)/ 70 KIAS(Flaps DOWN)/, Mixture-IDLE CUTOFF, Fuel Selector-OFF, Ignition-OFF, Flaps- As Required, Master sw-OFF,
 - b. Fire during cranking and engine fails to start.
Throttle-FULL OPEN, Mixture-IDLE CUTOFF, Cranking -Continue, Fire Extinguisher-OBTAIN, Ignition -OFF, Master sw-OFF, Fuel Selector-OFF, Fire-Extinguish
 - c. Engine fire in flight.
Mixture-IDLE CUTOFF, Fuel Selector-OFF, Master sw-OFF, Cabin Heat & Air-OFF (except overhead vents), Airspeed -100KIASincreased as required to extinguish flames, Execute FORCED LANDING
 - d. Electrical fire in flight.
Master sw-OFF, (Leave Ignition ON), Vent/Cabin Air-CLOSED, Fire Extinguisher-ACTIVATE, Avionics Power sw-OFF, All other switches-OFF, Ventilate cabin, Land ASAP

Continue on Reverse

Airplane Questionnaire (Continued)

15. Normal takeoff flap setting is 0-20 , short field takeoff setting is 20 , and soft field takeoff flap setting is 20 .

16. Maximum demonstrated takeoff/landing crosswind component is 15 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: 2259 ft

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: 1615 ft

19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? No