

AIRCRAFT FAMILIARIZATION EXAM

Name _____

Date: _____

Aircraft Make and Model: **LEGEND CUB AL3C-100**

1. What are the following "V" speeds?
V_A _____ MPH V_X _____ MPH V_Y _____ MPH
2. Acrobatic maneuvers including spins are _____.
3. What is the airspeed green arc range? _____ (V_S) to _____ (V_{NO}) MPH
4. What does the green arc on the Airspeed Indicator denote? _____
5. What is the airspeed yellow arc range? _____ (V_{NO}) to _____ (V_{NE}) MPH
6. What does the yellow arc on the Airspeed Indicator denote? _____
7. What is the RED LINE speed? _____ (V_{NE}) MPH
8. What is the Maximum Glide Distance speed? _____ MPH.
9. What is the normal RPM operating range for this engine? _____ to _____ RPM. The maximum RPM is _____.
10. What is the normal oil pressure range? _____ to _____ PSI; The maximum allowed oil pressure is _____ PSI. What is the normal oil temperature range? _____ to _____ °F.
11. Engine oil level. Preflight engine oil level: _____ - _____ quarts.
12. What is the maximum allowed takeoff weight? _____ lbs.
13. If the gross weight decreases, due to fuel burn or light loading, what effect will this have on the maneuvering speed (V_A)? _____
14. What is the maximum allowable baggage area weight? _____ lbs.
15. How many fuel tanks, their location, capacity, and usable gallons are available? _____ tank(s), located _____, each tank has a capacity of _____ gallons, with _____ useable gallons in each tank.
16. For a Forced Landing with No Power, the recommended landing speed? _____ MPH
17. What circumstances would require the use of Carb. Heat? _____

18. What aircraft documents must be onboard during flight?

19. What is the recommended normal approach airspeed? _____ MPH

20. What is the maximum demonstrated crosswind component for this aircraft? _____ MPH

21. Given: Takeoff, Pressure Altitude sea level, Temp. 80°F, No wind. Find, using the proper tables in the Pilot's Operating Handbook, the total distance required to clear a 50 foot obstacle _____ feet; the ground roll _____ feet. What would the takeoff data be for a turf runway with 6" tall grass, the total distance required to clear a 50 foot obstacle _____ feet; the ground roll _____ feet.

22. Given: Cruising at 2500 RPM, altitude 7500 feet. What is the Fuel Flow? _____ GPH.

23. Given: Landing, Pressure Altitude sea level, Temp. 80°F, No wind. Find, using the proper tables in the Pilot's Operating Handbook, the total distance required to clear a 50 foot obstacle _____ feet; the ground roll _____ feet. What would the landing data be for a turf runway with 6" tall grass, the total distance required to clear a 50 foot obstacle _____ feet; the ground roll _____ feet.

24. Weight and Balance: Given: Basic Empty Weight - 864 lbs. ; Full Fuel ; Pilot - 180 lbs.; Baggage - 0 lbs. What is the maximum allowable weight of a Rear seat passenger? _____ lbs.

25. Using the conditions in question 24 (with the Rear passenger onboard), list the following:
Total Weight _____ lbs. Total Moment _____ lb.-ins. CG _____ inches aft of datum.

26. Based on the conditions in question 24, is the aircraft loaded within CG Limits? YES / NO

27. What is the Pattern ALT. at 82J.
a. 1,000ft b. 700ft c. 500ft d. 600ft

28. To remain below the Class "C" airspace at the Lillian Bridge, West bound, what is your Max ALT.
a. 1,200ft b. 1,400ft c. Unlimited d. 500ft

29. When departing RW18 at 82J, what is the procedure for departing to the West.
a. Turn West at 300ft b. Depart from the left downwind at 500ft

30. What is the CTAF freq. at 82J.
a. 118.6 MHz b. 120.65mhz c. 122.8mhz d. 122.2mhz

31. When departing to the West from 82J you should remain North of HW98 until the Lillian Bridge and when returning from the West you should remain South of HW98.
a. True b. False

Corrected by: _____
Name of CFI

_____ Date

Reviewed by: _____
Instructor