

ODFA AIRCRAFT TYPE EXAM

1. State the following speeds:

a. V_s _____

b. V_{so} _____

c. V_x _____

d. V_y _____

e. Recommended Glide Speed _____

f. V_{fe} _____

g. Approach Speed -- No Flap _____, Full Flap _____.

h. V_a (max gross weight) _____

2. List the appropriate emergency procedures for the following situations:

a. Engine Fire on the Ground:

b. Engine Fire in Flight:

c. Electrical Fire in Flight:

d. Alternator Malfunction:

e. Rough Running Engine:

3. Calculate a weight and balance for two standard males, and 100 lbs. of baggage and max fuel. State max weight allowed in the rear baggage area.

4. What is the minimum oil quantity required for flight? If you need to add oil, what type is required?

5. What is the fuel capacity, useable fuel, and type of fuel?

6. Calculate the take-off distance for Calgary International Airport - +5 degrees C, 10 knot headwind, at max gross weight.

7. Calculate the landing roll for the criteria at Q 6.

8. At what temperature should the winterization kit be installed?

9. Night flying:
 - a. Can you fly at night without an endorsement?
 - b. Why?
 - c. Define night.

10. Mountain Flying:
 - a. Can you legally fly in the mountains without a mountain check?
 - b. Should you?
 - c. What involves a Mountain Check?

11. List the documents required to be carried on-board the aircraft while flying.

12. Define air time and flight time.

13. Can you fly over the 100 hour aircraft check time?

14. Complete a flight plan of your choice, three legs with a 15 minute intermediate stop-over, VFR.

15. When must a flight plan be filed?

16. Before attempting to reset any circuit breaker, allow a ____ to ____ minute cooling off period.
17. The over voltage relay be reset by switching the _____ to "off" for approximately one minute and then returning the switch to "on".
18. When the over voltage relay opens - what will the ammeter read _____.
19. The maximum continuous alternate load is _____ ampere.
20. If the battery is dead, should you take-off? Yes/No.
Why? _____.
21. The electrical system is ____ volt and has a ____ amp alternator.
22. Starter limits are _____ attempts of ____ sec each then a ____ minute cooling off period.
23. The recommended Cherokee 180 fuel feeding sequence is one tank used for _____ hour after take-off, then the other tank for _____ hours, then return to the first tank, which will have approximately _____ hours of fuel remaining if the tanks were full at take-off. The second tank will contain approximately _____ of fuel.
24. Should a Fuel tank(s) be run completely dry in flight? Yes/No.
25. Define ESCAT and where is the regulation found.

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