

Date \_\_\_\_\_

# CP AVIATION

## AIRCRAFT GROUND REVIEW

*[ALL AIRCRAFT DOCUMENTS MAY BE USED FOR THIS REVIEW]*

Use this form as an aid in reviewing FAR Part, fundamental specifications, systems, and procedures for aircraft to be flown. All questions may not be applicable to all aircraft. Utilize aircraft document, placard and markings.

PILOT \_\_\_\_\_ A/C MAKE/MODEL \_\_\_\_\_

1. Sect. 1. Total fuel capacity: \_\_\_\_\_ No. of tanks: \_\_\_\_\_  
Total usable: \_\_\_\_\_ Fuel grade: \_\_\_\_\_ Color: \_\_\_\_\_

2. Sect. 7. Fuel drain location: \_\_\_\_\_  
When drained: \_\_\_\_\_

3. Sect. 1. Recommended grade of oil: \_\_\_\_\_  
Sect. 7. Minimum operating oil level: \_\_\_\_\_ Normal operating oil level: \_\_\_\_\_

4. Sects. 2 & 5. List the following speeds:  
V<sub>so</sub> \_\_\_\_\_ V<sub>x</sub> \_\_\_\_\_ V<sub>fe</sub> \_\_\_\_\_ V<sub>lo</sub> \_\_\_\_\_ V<sub>mc</sub> \_\_\_\_\_  
V<sub>so</sub>(60°AOB) \_\_\_\_\_ V<sub>y</sub> \_\_\_\_\_ V<sub>no</sub> \_\_\_\_\_ V<sub>le</sub> \_\_\_\_\_ V<sub>yse</sub> \_\_\_\_\_  
V<sub>s</sub> \_\_\_\_\_ V<sub>a</sub> \_\_\_\_\_ V<sub>ne</sub> \_\_\_\_\_ V<sub>ref</sub> \_\_\_\_\_ V<sub>xse</sub> \_\_\_\_\_

5. Sect. 2. What is the purpose of flaps: \_\_\_\_\_

6. Sect. 3. What is best glide speed: \_\_\_\_\_

7. Sects. 3 & 7. What are the "Unsafe Gear" indications: \_\_\_\_\_

8. Sect. 3 How do you detect carburetor or induction ice:(As appropriate) \_\_\_\_\_

\_\_\_\_\_

In the event of ice, what do you do: \_\_\_\_\_

9. Sects. 3 & 7. What is the indication of an alternator malfunction: \_\_\_\_\_

Action to restore electrical function: \_\_\_\_\_

10. Sects. 5 & 7. Location of alternate static source: \_\_\_\_\_

Effect of alternate static source on instruments: \_\_\_\_\_

11. Sect. 4. Approach airspeed with flaps: \_\_\_\_\_ Without flaps: \_\_\_\_\_

Short field approach airspeed: \_\_\_\_\_

12. Sect. 4. Maximum crosswind component: \_\_\_\_\_ (Demonstrated or 20% V<sub>so</sub>)

13. Sect. 4. Go around procedure: \_\_\_\_\_

14. Sect. 5. What is the power setting, fuel consumption and TAS for the following:

65% power, 8,000 ft., standard temperature

Manifold pressure \_\_\_\_\_ RPM \_\_\_\_\_

Fuel consumption \_\_\_\_\_ TAS \_\_\_\_\_

75% power, 7,500 feet, standard temperature

Manifold pressure \_\_\_\_\_ RPM \_\_\_\_\_

Fuel consumption \_\_\_\_\_ TAS \_\_\_\_\_

15. Sect. 5. Short field take off, maximum gross weight, 0 KTS wind for,

Sea level 15°C \_\_\_\_\_ 5,000 ft, 40°C \_\_\_\_\_

\_\_\_\_\_ feet roll \_\_\_\_\_

\_\_\_\_\_ 50 ft obstacle \_\_\_\_\_

16. Sect. 1, 2, & 6. Empty weight: \_\_\_\_\_ Useful load: \_\_\_\_\_

Maximum takeoff weight: \_\_\_\_\_ Landing weight: \_\_\_\_\_

Center of gravity range (max weight): \_\_\_\_\_

Work sample weight and balance problem, carry max. passengers at 170 lbs. ea., max. baggage, then fuel to max. takeoff weight.

17. When are passengers required to have their seatbelts fastened: \_\_\_\_\_

18. What aircraft documents are required on board during flight: 1) \_\_\_\_\_

2) \_\_\_\_\_ 3) \_\_\_\_\_ 4) \_\_\_\_\_

19. Basic VFR weather minimums for flight in Class D airspace:

Ceiling: \_\_\_\_\_ Visibility: \_\_\_\_\_

20. To enter a Class D airspace, an airplane must have: \_\_\_\_\_

Class C: \_\_\_\_\_

21. VFR cruising altitudes are required above what minimum altitude: \_\_\_\_\_

22. What inspections are required on Leased/For Hire aircraft: \_\_\_\_\_

For Instrument flight in Controlled Airspace: \_\_\_\_\_

23. Describe the manual mixture leaning procedure: \_\_\_\_\_

24. RANGE

DESTINATION – Apple Valley (APV)

PA = 7,500 FT TAS = \_\_\_\_\_ KTS FUEL STOPS \_\_\_\_\_

TEMP = +15° GPH = \_\_\_\_\_ FUEL REQUIRED \_\_\_\_\_

WIND = 090°/20 KTS DAY VFR RESERVE \_\_\_\_\_ FUEL REMAINING \_\_\_\_\_

Corrected and approved by \_\_\_\_\_ CFI