

## Aircraft Checkout

Correct to 100%

Pilot \_\_\_\_\_ Date \_\_\_\_\_

Aircraft \_\_\_\_\_ CFI \_\_\_\_\_

### Systems

1. What type is the engine and how much horsepower does it have?

\_\_\_\_\_

2. What are the indications of carburetor/induction system icing?

\_\_\_\_\_

3. How do you prevent or correct carburetor/induction system icing?

\_\_\_\_\_

4. Is there an auxiliary fuel boost pump? When is it used? \_\_\_\_\_

\_\_\_\_\_

5. Explain fuel management procedures \_\_\_\_\_

\_\_\_\_\_

6. What is the useable fuel capacity? \_\_\_\_\_

\_\_\_\_\_

7. How many fuel drains are there? \_\_\_\_\_

\_\_\_\_\_

8. What are the min & max oil quantities? \_\_\_\_\_

\_\_\_\_\_

9. What is the cold start procedure? \_\_\_\_\_

\_\_\_\_\_

10. What is the hot start procedure? \_\_\_\_\_

11. What is the full procedure for engine failure in cruise?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Continue on next page)

12. Is there an alternate static source? \_\_\_\_\_ Where? \_\_\_\_\_

13. What are the indications of a failed alternator? \_\_\_\_\_

\_\_\_\_\_

14. What is the procedure for alternator failure? \_\_\_\_\_

\_\_\_\_\_

15. What items are lost if the entire electrical system fails? \_\_\_\_\_

\_\_\_\_\_

16. How do you activate the ELT? \_\_\_\_\_

17. (Variable Pitch Prop Only) What happens to the prop blades if oil pressure is lost? \_\_\_\_\_

\_\_\_\_\_

18. (Retractable Gear Only) When do the gear warning horn and/or light activate? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

19. (Retractable Gear Only) What is the procedure for emergency gear extension? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Weight and Balance**

1. What is the maximum takeoff weight? \_\_\_\_\_

2. With full fuel, how many 170-lb people can be carried (including the pilot)? \_\_\_\_\_

**Performance**

**For questions 1 and 2, assume you are operating at Truckee-Tahoe Airport (TRK)**

*Elevation: 5900 feet Runway length: 4650 feet*

*Altimeter setting: 29.82 Wind: Calm*

*Temperature: 86 deg F (30 deg C) Aircraft weight: max T/O weight*

1. What is the takeoff distance (50 ft obstacle) at TRK? \_\_\_\_\_ Is it safe? \_\_\_\_\_
2. What is the rate of climb at TRK pattern altitude (1000' AGL) \_\_\_\_\_ Safe? \_\_\_\_\_
3. What is the takeoff power setting? \_\_\_\_\_ Climb power setting? \_\_\_\_\_

**For questions 4-7, assume the following conditions:**

*Cruise altitude: 3000 feet Power: 65%*

*Standard atmosphere Mixture: Best power*

*Fuel load: Full tanks Fuel reserves: Ahart reserves (1 hour)*

4. What is the cruise power setting? \_\_\_\_\_
5. What are the fuel flow and true airspeed (TAS)? \_\_\_\_\_
6. What is the range? \_\_\_\_\_
7. What is the endurance? \_\_\_\_\_
8. What is the rotate speed? \_\_\_\_\_ 9. What is  $V_x$ ? \_\_\_\_\_
10. What is  $V_y$ ? \_\_\_\_\_ 11. What is cruise climb speed? \_\_\_\_\_
12. What is best glide speed? \_\_\_\_\_ 13. What is  $V_a$ ? \_\_\_\_\_
14. What is final approach speed with full flaps? \_\_\_\_\_
15. What is final approach speed with zero flaps? \_\_\_\_\_
16. What is the maximum demonstrated crosswind component? \_\_\_\_\_
- (Retractable gear only) 17. What is  $V_{lo}$ ? \_\_\_\_\_
18. What is  $V_{le}$ ? \_\_\_\_\_
19. Max speed for emergency gear extension? \_\_\_\_\_