

AV-ED FLIGHT SCHOOL, INC.

Renter Pilot Exam

Pilot _____ Date ____ / ____ / ____

Aircraft Type _____ Call Sign N _____

Fuel System:

1. How many fuel tanks are there? _____
2. What is the capacity of each tank? _____
3. What is the total usable fuel capacity? _____
4. What is the correct fuel grade? _____ Color? _____
5. Where are the drains located? _____
6. When should a fuel sample be examined? _____

Oil System:

1. What is the minimum oil level? _____ Max level? _____ Normal Level? _____
2. What is the recommended oil viscosity for all temperatures? _____

Weight and Balance:

1. What is the aircraft maximum allowable gross weight? _____
2. What is the standard empty weight of the aircraft to be flown? _____
3. What is the basic empty weight of the aircraft to be flown? _____
4. What is the weight of full fuel? _____
5. What is the aircraft useful load? _____
6. What is the aircraft payload? _____
7. Determine if the aircraft is within the weight and balance limitations given the following conditions:
 - a) Full fuel
 - b) Front seats = 340 lbs. total
 - c) Baggage = 20 lbs.
 - d) For Aircraft with rear seats = 150 lbs. total.

Takeoff Weight _____ CG _____ Within Limits ? Yes No

Airspeeds: Use indicated airspeeds

1. Stall speed in the landing configuration (Vso)? _____
2. Never exceed speed (Vne)? _____
3. Max structural cruising speed (Vno)? _____
4. Maneuvering speed (Va) at max gross weight? _____ Does Va **increase/decrease** as gross weight decreases?
5. Max flap extended speed (Vfe)? _____
6. Max gear extension speed (Vle)? _____ (aircraft with retractable gear only)
7. Max gear retraction speed? _____ (aircraft with retractable gear only)
8. Best angle of climb speed (Vx) at sea level? _____ Vx **increases/decreases** with altitude?
9. Best rate of climb speed (Vy) at sea level? _____ Vy **increases/decreases** with altitude
10. Demonstrated max crosswind component? _____
11. Normal final approach airspeed? _____ Aircraft configuration? _____
12. Short field final approach airspeed? _____ Aircraft configuration? _____
13. Best glide speed gear down? _____; gear up? _____

Emergency procedures:

1. For aircraft with retractable gear, describe the emergency gear extension procedure.

2. For aircraft with carburetor, describe how you would detect carb ice, and what action should be taken to remove/prevent carb ice?

3. How would you detect an alternator failure, and what action would you take?

4. What actions would you take if you experienced an engine failure during flight?

5. What actions would you take if you noticed high oil temperature?

6. What actions would you take if you noticed low oil pressure while in flight?

7. Describe the "go around" procedure.

Aircraft Performance:

1. What is the power setting, fuel consumption and true airspeed for cruising at 75% power at 6,500 feet with standard temperature?
 MP_____ RPM_____ Fuel consumption_____ TAS_____
2. What is the takeoff distance to clear a 50' obstacle when using maximum performance procedures with the aircraft at gross weight into a 6 knot headwind with the following conditions:
 - a) Pressure altitude = Sea level, Temperature = Standard ? _____
 - b) Pressure altitude = 5,000', Temperature = 90 deg F? _____
3. Describe how you can determine pressure altitude.

Reviewed by: _____

Make copy for customer