

Aero Atlanta Flight Center – Cessna 182T Questionnaire

Name: _____ Date: _____

Using the Cessna Pilot Operating Handbook, answer the following questions:

General

Who is the manufacturer of the engine? _____

What is the horsepower rating for the engine? _____ At what RPM? _____

What is the total capacity of the oil sump? _____

What is the total fuel capacity? _____ How much is usable? _____

Limitations

What is the Never Exceed Speed (Vne)? _____

What is the max structural cruising speed (Vno)? _____

What are the maximum flap extended speeds (Vfe)? 0 to 10°: _____ 10° to 20°: _____ 20° to full: _____

What is the maximum maneuvering speed at 3100lbs? _____ 2600 lbs? _____ 2100 lbs? _____

What is the normal operating range on the oil pressure gauge? _____

What is the normal operating range for the engine as depicted on the tachometer? _____

Is the Cessna 182T aircraft approved for acrobatics/spins? _____

List the following weights:

Weights:

Max Ramp Weight: _____ Max Takeoff Weight _____ Max Landing Weight _____

Aircraft Empty Weight: _____ Max Useful: _____

Baggage Area A: _____ Baggage Area B: _____ Baggage Area C: _____ Max Total Baggage Area Weight _____

Emergency Procedures

What is the best glide speed at 3100lbs? _____ 2600lbs? _____ 2100lbs? _____

What is the airspeed for engine failure after takeoff? Flaps Up: _____ Flaps Down: _____

How do you know if you have an alternator failure? _____

If the engine driven Fuel pump fails during flight, what should you do? _____

What is the emergency frequency? _____

What is the emergency squawk code? _____

Normal Procedures

What is the rotation speed (Vr) _____

What is the speed for the best rate of climb (Vy) _____

What is the speed for the best angle of climb (Vx) _____

What is the maximum demonstrated X-wind component for the Cessna 182T? _____

Describe the steps for engine starting under the following conditions:

Cold Start: _____

Hot Start: _____

Flooded Start: _____

Describe leaning procedures for climb and cruise flight:

How is the propeller adjusted in flight? _____

In what order should power changes be made? _____

Performance

Use the following information to answer questions. Aircraft Weight 3100lbs.

Weather conditions

KRYY 101250Z 3320KT 010SCT 15/10 A29.82

What will be your takeoff distance from McCollum Airport? _____

What will you have for a crosswind component if RWY 27 is in use? _____

What will be your calculated KTAS and fuel flow for cruise at 8,000 MSL? _____

What will you have for landing distance at KRYY? (Landing roll and distance to clear a 50' obstacle)? _____

What is the aircraft stall speed with the flaps up and a bank angle of 0? _____

What is the aircraft stall speed with the flaps full and a bank angle of 0? _____

Weight & Balance

Aircraft – Cessna 182T

Basic Empty Weight 1978.6

Payload

Pilot	170lbs
Front Passenger	180lbs
Rear Passenger	180lbs
Baggage	20lbs
Fuel	522lbs

What is your ramp weight? _____

What is your aircraft's zero fuel weight? _____

What will be your aircraft's gross takeoff weight? _____

How much fuel will you have on board in gal and lbs before takeoff? _____

Will your aircraft be within CG limits? _____

Systems

What amount of oil is recommended in the crankcase? _____

What is the minimum amount of oil required for operation? _____

How many fuel drain valves are there and where are they located? _____

What condition can cause fuel starvation when there is $\frac{1}{4}$ or less of fuel remaining? _____

What is the voltage of the electrical system? _____ What is the voltage of the battery? _____

How many vacuum pumps are there? _____

What type of propeller system does the Cessna 182T use? _____

With the engine RPM set to 2200, what does the prop governor do if the engine RPM increases? _____

How should the cowl flaps be set while on the ground and on takeoff? _____

How should the cowl flaps be set for cruise flight? _____

Handling, Service & Maintenance

What tire pressure should be maintained in the nose tire and main tires respectively? _____

What should you never use to clean the windshield and windows on the aircraft? _____

What should you use in lieu of aircraft windshield cleaner? _____