

Pilot: _____ Licence #: _____

Instructor: _____ Date: _____

General:

1. Is this aircraft certificated for: ▶ IFR Operations? YES / NO ▶ Spins? YES / NO
2. Are aerobatics permitted in this aircraft? ▶ YES / NO
3. What is the primary type of material used in the aircraft construction?

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4. Are flaps required for take-off? ▶ YES / NO
 5. Is the seat position adjustable? ▶ YES / NO
 6. How are the rudder pedals adjusted?

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7. Where is the list of installed equipment located? _____
 8. What Chapter of the POH has the list of "Minimum operational equipment"? _____

Fuel System:

1. How many fuel tanks are there? _____
2. What is the total usable fuel capacity? _____
3. What is the correct fuel grade? _____ Color? _____
4. Where are the drains located? _____
5. 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? _____ Where does SLA list this information? _____

Weight and Balance:

1. What is the maximum take-off weight? _____ lbs.
2. What is the maximum landing weight? _____ lbs.
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 with full fuel? _____
7. Determine if the aircraft is within the weight and balance limitations given the following conditions:
Full fuel, front passengers = 360 lbs, baggage = 40 lbs.
▶ YES / NO

Airspeeds:

Use indicated airspeeds

1. Stall speed in the landing configuration (V_{so})? _____
2. Never exceed speed (V_{ne})? _____
3. Max structural cruising speed (V_{no})? _____
4. Manoeuvring speed (V_a) at max gross weight? _____
Does V_a **increase / decrease** as gross weight decreases?
5. Max flap extended speeds (V_{fe})? _____ Flaps T/O position _____ Flaps LDG position _____
6. Normal rotation speed: _____
7. Short field take-off climb speed: _____
8. At what altitude should the flaps be retracted after departure? _____
9. Best rate of climb speed (V_y) at sea level? _____
10. Demonstrated crosswind component? _____
11. Normal final approach airspeed? _____ Aircraft configuration? _____
12. Short field final approach airspeed? _____ Aircraft configuration? _____
13. Best power off glide speed flaps up? _____

Starting

1. Describe the procedures for starting this aircraft.

Emergency procedures:

1. How would you detect an alternator failure, and what action would you take?
2. What actions would you take if you experienced an engine failure during flight?
3. What actions would you take if you noticed high oil temperature?
4. What actions would you take if you noticed low oil pressure while in flight?
5. Describe the “go around” procedure.

Aircraft Performance:

1. What is the power setting, fuel consumption and true airspeed for cruising at 75% power at 6,000 feet with standard temperature (lean to Best Power)?

RPM _____ TAS _____ Fuel Consumption _____

2. What are the takeoff distances to clear a 50' obstacle when using maximum performance procedures with the aircraft at gross weight into an 8 knot headwind under the following conditions using censenich propeller:

▶ Sea level, standard temperature? _____ feet

▶ Pressure altitude = 4,000', Temperature = 32 deg C _____ feet

➤ **DA20-C1 Type Exam Completed Satisfactorily**

Flight Instructor's Signature

Date

Pilot's Signature

Date
