

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?  
\_\_\_\_\_

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

7. Where is the list of installed equipment located? \_\_\_\_\_
8. What Chapter of the AFM has the list of "Minimum operational equipment"? \_\_\_\_\_

### Fuel System:

1. What is the total usable fuel capacity? \_\_\_\_\_
2. What is the correct fuel grade? \_\_\_\_\_ Color? \_\_\_\_\_
3. In the case that you have to use AVGAS 100LL, what is the maximum % of the utilization? \_\_\_\_\_
4. Where are the drains located? \_\_\_\_\_
5. When should a fuel sample be examined? \_\_\_\_\_

### Oil System:

1. What is the minimum oil level? \_\_\_\_\_ liters Max level? \_\_\_\_\_ liters
2. What is the recommended oil? \_\_\_\_\_
3. How should the oil level be checked? \_\_\_\_\_

### 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? \_\_\_\_\_ lbs.
4. What is the weight of full usable fuel? \_\_\_\_\_ lbs.
5. What is the aircraft useful load? \_\_\_\_\_ lbs.
6. 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 ( $V_{fe}$ )? \_\_\_\_\_
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 ( $V_y$ ) with T/O flaps? \_\_\_\_\_
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? \_\_\_\_\_ Aircraft configuration? \_\_\_\_\_

### Starting

1. Describe the procedures for starting this aircraft.

### Emergency procedures:

1. What would you do if Generator Annunciator Illuminated?
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 5,000 feet with standard temperature?

RPM \_\_\_\_\_ MP \_\_\_\_\_ TAS \_\_\_\_\_ Fuel Consumption \_\_\_\_\_ GPH

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:

- ▶ Sea level, standard temperature? \_\_\_\_\_ feet
- ▶ Pressure altitude = 4,000', Temperature = 32 deg C \_\_\_\_\_ feet

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➤ **DA20-A1 Type Exam Completed Satisfactorily**

\_\_\_\_\_  
Flight Instructor's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Pilot's Signature

\_\_\_\_\_  
Date