

Pilot: _____ Licence #: _____

Instructor: _____ Date: _____

References: DA20-A1 POH, Dispatch form, and DA20-A100 Aircraft Handling Guide

General:

1. Is this aircraft certified for: ▶ Steep turns more than 60° ? 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's construction?

4. Are flaps required for take-off? ▶ YES / NO

5. How are the rudder pedals adjusted?

6. What chapter of the POH has the list of "Minimum Operational Equipment"? _____

Fuel System:

1. What is the total usable fuel capacity? _____
2. What is the correct fuel grade? _____ Colour? _____
3. Where is the drain located? _____

Oil System:

1. What is the minimum oil level? _____ Max level? _____

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 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. Best rate of climb (V_x) at sea level? _____ flaps setting? _____
8. Best rate of climb (V_y) at sea level? _____ flaps @ T/O _____ flaps @ UP
9. At what altitude should the flaps be retracted after departure? _____
10. Maximum demonstrated crosswind component? _____
11. Normal final approach airspeed? _____ flaps setting? _____
12. Short field final approach airspeed? _____ flaps setting? _____
13. Best power off glide speed with MAX landing weight? _____

Emergency Procedures:

1. What would you do if your 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" procedures.

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_____

2. What are the take-off distances to clear a 50ft obstacle when using maximum performance procedures with the aircraft at gross weight into an 8 knots headwind under the following conditions:

- ▶ Sea level, standard temperature?_____ feet
- ▶ Pressure altitude = 4,000ft, temperature = 32°C?_____ feet

Aircraft Handling

1. If the second attempt of engine start is unsuccessful, what should you do?
2. What is the minimum power setting that you should keep while taxiing? Why?
3. When can you cage the attitude indicator before take off? Why?
4. How do you identify a Propeller Speed Control Failure?
 - 4-a. What should you do once you experience propeller speed control failure?
5. What is the first indication of a snapped throttle cable?
 - 5-a. How do you confirm that the throttle cable is snapped?
 - 5-b. What should you do once you confirm that the throttle cable is snapped?
 - 5-c. How can you help prevent a snapped throttle cable?
6. You feel sudden heaviness on the control stick for the desired attitude in pitch. What is the most likely cause?

6-a. What do you do?

7. For Engine Shut Down, what power setting should you have after keeping 1000 RPM for 2 minutes?

7-a. In order to prevent back fire and possible damage on the overload clutch, how should you shut down the engine?

Defect Control Procedures:

1. What should you do if you suspect a defect?

2. How do you snag an aircraft?

3. If you have discovered a defect that does not affect the airworthiness of your flight, are you allowed to fly the aircraft immediately? Why?

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

Flight Instructor's Signature

Date

Pilot's Signature

Date