

| Pil | ot: Licence #: | |
|--|--|--|
| Ins | structor: Date: | |
| Reference: DA20-C1 POH, Dispatch form, and DA20-C1 Aircraft Handling Guide | | |
| Ge | eneral: | |
| 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? | |
| 5. | How are the rudder pedals adjusted? | |
| 6. | What chapter of the POH lists the "Minimum Operational Equipment"? | |
| 7. | What type of propeller is installed for DA20-C1 at SLA? | |
| Fu | el System: | |
| 1. | What is the total usable fuel capacity? | |
| 2. | What is the correct fuel grade? Colour? | |
| 3. | Where are the drains located? | |
| Oi | l System: | |
| 1. | What is the minimum oil level? Max level? | |
| 2. | What is the recommended oil? Where does Sea Land Air list this information? | |
| W | 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 (Vso)? | |
| 2. Never exceed speed (Vne)? | |
| 3. Max structural cruising speed (Vno)? | |
| 4. Manoeuvring speed (Va) at max gross weight? | |
| Does Va increase / decrease as gross weight decreases? | |
| 5. Max flap extended speeds (Vfe) for T/O flaps? LDG flaps? | |
| 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 (Vy) at sea level?flaps @ T/Oflaps @ CRUISE | |
| 10. Maximum demonstrated crosswind component? | |
| 11. Short field final approach airspeed? Aircraft configuration? | |
| 12. Best power off glide speed with flaps CRUISE? | |
| | |

Starting Engine:

Describe the procedures for starting this aircraft in cold temperature.

Emergency Procedures:

- 1. What would you do if the 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 with 70% BHP at 4,000 feet with standard temperature (lean to Best Power)? *Use appropriate performance charts for the installed type of propeller.

RPM_____TAS_____Fuel Consumption_____

- 2. What is the required take-off distance to clear a 50ft obstacle using maximum performance procedures with the aircraft at gross weight and an eight knot headwind under the following conditions:
 - Sea level, standard temperature? ______feet
 - Pressure altitude = 4,000ft, temperature = 32°C? _____feet

Winter Operations:

- 1. At what temperature should the baffles be installed?_____°C Ground / Air
- 2. What is the recommended oil to be used during winter?_____

Aircraft Handling

- 1. Why is it important to know the current and forecasted temperature during a walk around for DA20-C1?
- 2. Under what conditions do the inlet baffles need to be removed?
- 3. You observe "high oil temperature and low oil pressure" in flight with inlet baffles installed. What should you do?
- 4. Cylinder Head Temperature is indicating lower than 300°F (green range is between 300°F and 420°F) What should you do?
- 5. When should you release ignition switch from "START" position to start engine?
- 6. What checklist should you use when starting a Hot Engine?
- 7. If you prime a hot engine accidently, what could happen?
- 8. What should you confirm on Cylinder Head Temperature and oil temperature gauges before takeoff?



9. Why should you plan a power assist approach?

- 10. What are the three steps to achieve a power assisted approach on final leg?
- 11. What will happen if you have higher than 55kt for your final approach speed?
- 12. What method should you use for cross-wind landing?
- 13. How can you prevent engine stoppage while turning to taxi out from the runway (especially with a tailwind)?
- 14. What should your mixture setting be while taxing?

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 aircraft, are you allowed to fly the aircraft immediately? Why?

DA20-C1 Type Exam Completed Satisfactorily

Flight Instructor's Signature

Date

Pilot's Signature

Date

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