

ROBIN SPORT R2160 EXAM

1. What is the total usable fuel?
2. What is total fuel capacity?
3. What is the oil capacity?
4. What is the minimum oil level?
5. What category is the Robin certified for?
6. What are the operating load factor limitations?
7. What is the maximum inverted flight time?
8. What are the following speeds?
 - Design maneuvering speed (V_a)
 - Never exceed (V_{ne})
 - Maximum Flap speed (V_{fe})
 - Normal Climb?
 - Approach to landing?
 - Stall Speed:
 - Flaps up?
 - Flaps 10 Degrees?
 - Flaps 35 Degrees?
9. What is normal fuel burn(65% power)?
10. What is the maximum demonstrated crosswind?
11. Described engine leaning to best power for cruise.
12. What is maximum L/D (Lift to Drag) and at what speed?
13. Where is the alternate static switch?
14. What is the maximum certified weight?

15. What is the empty weight?
16. What is the maximum weight allowable in the baggage area?
17. What is the weight of each parachute and what is the maximum body weight the parachute is designed for?
18. What is the entry speed for these maneuvers:

Flick Roll
Aileron Roll

19. Where is the fuel vent and fuel sample port?

20. Explain the following emergency procedures:

Engine Failure:
At Take Off:

After Take Off: In Flight:

Fire:
Engine fire on the ground

Engine fire in flight:

Cabin Fire:

Electrical wiring fire:

Canopy jettisoning:

Landing without elevator control:

Forced landing with engine running:

Forced landing with no engine:

Flight in icing conditions:

Accidental spin with flaps extended:

Failure of electrical system:

21. What is the Hart Air-Jg 54 minimum aerobatic altitude?

22. What is the minimum fuel for Take Off?

PERFORM THE FOLLOWING WEIGHT AND BALANCE PROBLEM:

Use your own weight, parachute and full fuel.

1. What is the new CG Center of Gravity?

2. Is it in the safe flight region?

3. What is the maximum weight of a person that could safely fly aerobatics with you in these conditions?

ITEM	WEIGHT (LB)	ARM (IN)	MOMENT (LB.IN.)
EMPTY WEIGHT	1256.4	9.45	11881.9
PILOT			
CO PILOT			
FUEL			
BAGGAGE			
TOTAL			
CG			

Signature

Date