Pilot Name: _____

Medical Class:_____ Medical Date: _____ Pilot Certificate # _____

Category/Class/Ratings: _____ Total time: _____ hours

Note: This open-book questionnaire is required for the initial OFC check-out in N11937. Pilots should have a Pilot's Operating Handbook (POH) covering this specific aircraft model and complete the questionnaire before your check-out flight. Download the POH from the OFC Website. Use the Actual Weight & Balance dated 5/26/23

Questions are based on the POH and other sources. For answers requiring numbers, please use the units corresponding to the units used on the specific aircraft's flight instruments or as specified in the POH. Please provide references for your answers.

1. Tire inflation: Mains: ____ psi and Nose: ____ psi.
2. Engine Make: __ _____ Model: _____
3. Rated (sea-level) power: _____ hp @ _____ rpm.
4. Typical climb power setting: _____ MP @ _____rpm.
5. Recommended fuel grade is _____ octane and is _____ in color.
6. Fuel (Long Range Tanks installed):
    a. Full _____ gal total / usable_____ gal
    b. Reduced Fuel (Filler Neck mark) _____ gal _____
7. Oil capacity is _____ quarts; theoretical minimum is _____ quarts.
8. Normally we add oil when the level gets below _____ quarts.
9. Max Take-Off weight _____
10. Max Landing weight _____
11. Useful load for this airplane is _____ lbs;
12. Max baggage compartment load: Total: _____ lbs. Hat Shelf _____ lbs.
13. V_y Best Rate of Climb Sea Level: _____ KIAS
14. V_x Best Angle of Climb Sea Level: _____ KIAS
15. Cruise climb: _____ KIAS
16. V_a Maneuvering Speed (Max Weight): _____ KIAS
17. Final approach (flaps): _____ KIAS
18. Final approach (no flaps): _____ KIAS

19. V_{fe} Flaps Extended, to 10°: _____ KIAS

20. Flaps Extended over 10°: _____ KIAS

21. V_{ne} Never Exceed: _____ KIAS

22. V_{no} Max structural cruise: _____ KIAS

23. Vs Stall (clean): _____ KIAS

24. V_{so} Stall (landing configuration): _____ KIAS

25. Best glide 2100 lbs: _____ KIAS

26. Max demonstrated crosswind component is _____ kts.

27. Max Window Open speed _____ KIAS

28. What are the steps for proper use of the EGT & fuel flow meter for leaning?

29. Highest altitude at which 75% power can be achieved at 2400 RPM is (std atmosphere _____ ft.

30. Cruising at 75% power at 6000 feet should produce ____ KTAS and consumes _____ gph, at _____ manifold pressure (MP) and _____PM.

31. The electrical system uses a _____ volt, _____ amp-hour battery.

32. The alternator is rated at _____ amps & the electrical system load is monitored by the _____.

33. Pitot heat should be used in the following conditions: _____

34. To transition from level cruise to climb, first increase _____, then increase _____.

35. To transition from climb to level cruise, first reduce _____then reduce _____.

36. Emergency landing Flaps Down (short final): _____ KIAS _____

37. What is the procedure for an engine failure during flight:

38. What is the procedure for a power-off landing:

39. What is the procedure for an engine fire in flight:

40. What is the procedure for an electrical fire in flight:

41. What is the procedure for an alternator failure:

42. What is the procedure for a spin recovery:

43. Find the takeoff run required for this airplane to clear a 50ft obstacle at a pressure altitude of 730ft, temp of 20°C and weight of 2500 lbs., no wind, Flaps 15: _____ ft. What if the same conditions prevail, but the temperature is 37°C: _____ ft

44. Weight & Balance FULL Tanks (60 Gallons)
    a. N11937 BEW is 1665.44 lbs & Moment 176.52/1000
    b. Pilot & Passenger in Front seat = 400 lbs & station at 93”
    c. Full Fuel (60 usable gallons) station at 100”
    d. Baggage = 50lbs & station 162”
    e. Is the CG within limits_____

45. Weight & Balance REDUCED Tanks (43 Gallons)
    a. N11937 BEW is 1665.44 lbs & Moment 176.52/1000
    b. Pilot & Passenger in Front seat = 400 lbs & station at 93”
    c. Reduced Fuel (43 usable gallons to filler neck) station at 100”
    d. Baggage = 50lbs & station 162”
    e. Is the CG within limits_____

46. You note that the fuel pressure gauge is reading below 0.5 psi; what should you do?

    _____

47. To ensure maximum fuel capacity when refueling; what should you do? _____

48. Before starting the engine when it is above freezing, how many times should you pump the primer? _____.

49. When is a good time to keep the cowl flaps closed; what is a recommended procedure?

    _____

50. During normal landings what procedure should be used in order to reduce nose wheel loading? _____

Approved by OFC Instructor: _____ Date: ____/____/_____