MYFLIGHT

Aircraft Checkout Knowledge Test

Name- _____ Aircraft- _____ Date- _____

General Information

1. Can you perform aerobatics in this aircraft?

_____

_____

2. What kind of engine is equipped on this aircraft?

_____

_____

3. Can you perform an intentional spin in this aircraft?

_____

_____

Performance Limitations

4. What is the maximum gross takeoff weight for this aircraft?

_____

_____

5. What is the maximum landing weight for this aircraft?

_____

_____

6. What is this aircraft's forward CG limit? Aft CG limit?

_____

_____

7. Is this aircraft in the normal or utility category?

_____

_____

8. What is the service ceiling for this aircraft?

_____

_____

9. Insert the appropriate speed value below:

Vs - _____

Vso- _____

Vfe- _____

Vg- _____

Vx- _____

Vy- _____

Va- _____

Vno- _____

Vne- _____

Weight and Balance

10. Calculate the weight and balance for the flight below:

- Front seats- You and your 200-pound friend
- Rear seats- 400 pounds
- Baggage- 10 pounds
- Fuel- 20 gallons of 100LL / Jet-A (whichever applies)

_____

_____

11. Is this aircraft loaded within limits? If not, what must change?

_____

_____

Aircraft Systems

Oil System

12. What type of oil does this aircraft use?

_____

_____

13. What is the minimum oil quantity required for engine operation?

_____

_____

14. What is the maximum oil quantity for engine operation?

_____

_____

15. What is the role of oil in an aircraft engine?

_____

_____

Fuel System

16. Name any acceptable fuel grades for this engine:

_____

_____

17. Where are the fuel tanks located in this aircraft?

_____

_____

18. How much fuel do the tanks hold?

_____

_____

19. How much of that fuel is usable?

_____

_____

20. How does the fuel travel to the engine (engine driven pump, electrical, gravity fed, etc.)?

_____

_____

21. Is this engine carbureted or fuel injected?

_____

_____

22. How do you lean the fuel/air mixture in this aircraft? Can you lean the mixture? If not, why?

_____

_____

_____

_____

Induction System

23. Is this engine normally aspirated? If not, what is this engine equipped with?

_____

_____

Propeller

24. Does this aircraft have a fixed pitch propeller or a constant-speed propeller?

_____

_____

The following only applies to aircraft equipped with a constant-speed propeller:

25. What is the main purpose of a constant speed propeller?

_____

_____

26. How is the propeller angle changed?

_____

_____

27. Is the pitch of the propeller controlled manually or automatically?

_____

_____

28. During takeoff, what should the propeller control be set to? Cessna 182 only.

_____

_____

29. During landing, what should the propeller control be set to? Cessna 182 only.

_____

_____

Electrical System

30. What kind of electrical system does this aircraft have? (28V, 24V, 12V, etc.)

_____

_____

Aircraft Procedures

Starting

31. What is the starting procedure for this aircraft?

_____

_____

_____

_____

32. Is there anything you should consider when starting the engine in very high/low temperatures?

_____

_____

Takeoff

33. What is the before takeoff procedure for this aircraft?

_____

_____

_____

34. Calculate the ground roll and total takeoff distance to clear a 50-foot obstacle:

- Max gross takeoff
- Pressure altitude- 2,000 feet
- Temperature- 30° C
- Winds- Calm

_____

_____

35. What is the rotate speed for this aircraft?

_____

_____

36. How does the short field takeoff procedure differ from the normal takeoff procedure?

_____

_____

_____

37. What is the soft field takeoff procedure for this aircraft?

_____

_____

_____

Climb

38. What is the after takeoff/climb procedure for this aircraft?

_____

_____

_____

39. Is there a suggested enroute climb airspeed? If so, what is it?

_____

_____

Cruise

40. What is the cruise procedure?

_____

_____

41. Describe the leaning procedure in this aircraft? (If applicable)

_____

_____

_____

Descent and Approach

42. What does the approach checklist call for in this aircraft?

_____

_____

_____

43. How does the weight of the aircraft affect the approach speed?

_____

_____

_____

44. What is the approach speed for this aircraft?

_____

_____

45. How does short field approach differ from a normal approach?

_____

_____

_____

Landing

46. What is the before landing checklist for this aircraft?

_____

_____

_____

47. Describe the go around procedure?

_____

_____

_____

48. What runway / atmospheric conditions might affect your total landing distance?

_____

_____

49. Calculate the landing distance with the given conditions:

- Maximum landing weight
- Pressure altitude- 2,000 feet
- Temperature- 30° C

- Wind- 10 Kts headwind
- Flaps- Landing / Full
- Runway- wet runway

_____

_____

Emergency Procedures

50. How can you detect an alternator failure and what is the appropriate course of action in this situation?

_____

_____

_____

51. Describe the procedure in the event of an inflight engine failure?

_____

_____

_____

52. If you experience an inflight engine fire, what procedure should you follow?

_____

_____

_____

53. What section of the POH /AFM will you find emergency procedures?

_____

_____

_____