

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?
