



CESSNA SKYHAWK MODEL 172M

CHECKOUT EXAM

(All aircraft documents may be used for this exam.)

NAME _____ DATE _____

CHECKOUT INSTRUCTOR(S) _____

AIRCRAFT USED FOR THE EXAM

N6843H

ENGINE:

1. What is the engine model number, type, and rated horsepower? _____
2. How long can you run the engine at full power? _____
3. What is the oil capacity? _____ For extended flights? _____ Normal level? _____ Add oil at 5.5 Qt
4. How do you determine the engine oil type? _____
5. Why is it important to lean the mixture?
 - On taxi _____
 - In flight _____
6. Mixture should be _____ during take-off, climb and maximum cruise power.
7. Between 30F- 90F what is the desired oil Temp.. _____ F Maximum _____ F
8. The maximum oil pressure for startup is _____ PSI and _____ PSI for normal operation.
9. The minimum oil pressure for Idle is _____ PSI and _____ PSI for normal operation.
10. CHT's should be maintained below _____ F for high performance cruise and _____ F for economy cruise.
11. What is the maximum RPM drop on the left or Right Mag? _____
12. What is the maximum drop between the Mags? _____
13. What are the proper procedures to follow when the engine runs rough while checking the mags on runup? _____

FUEL SYSTEM:

14. What is the minimum fuel grade (octane) and color? _____
15. How many fuel tanks are there? _____
16. What is the total fuel capacity? _____ Total *usable* fuel capacity? _____
17. Where are the fuel drains located? _____

18. Where are the fuel vent(s) located? _____

19. What would happen in the event of fuel vent blockage? _____

20. What position should the fuel selector valve be placed in for takeoff, climb, and landing? _____

ELECTRICAL SYSTEM:

21. What voltage is the aircraft? _____

22. What is the ammeter telling you? _____

AIRSPEEDS: (Expres in MPH IAS or CAS)

23. Vr_____ Vx_____ Vy_____ Cruise Climb_____ Vno_____ Vne_____ Vs_____ Vso_____

Vfe_____ Va @ 2300 lbs._____ Max demonstrate crosswind_____

24. What is the recommended best glide speed @ 2300 lbs. with flaps up?_____

25. What is the recommended *normal* final approach speed with flaps down?_____ Flaps up?_____

26. What is the recommended *short-field* final approach speed and configuration?_____

WEIGHT AND BALANCE: (Aircraft used for exam / checkout purposes N6843H, Normal Category.)

27. Maximum *takeoff / landing* weight?_____ Max weight in baggage compartment?_____

28. Work the following weight and balance problem. (Use *current weight for aircraft used for checkout.*)

<u>ITEM</u>	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
Licensed empty weight	_____	_____	_____
Pilot and front passenger	350	_____	_____
Rear seat passenger(s)	175	_____	_____
Fuel (38 Gal. usable @ 6 Lbs./gal.)	228	_____	_____
Baggage	50	_____	_____

TOTALS: _____

CG LOCATION _____ Are you within limits?_____

PERFORMANCE:

29. Cruise condition: 2300 lbs., recommended lean mixture, 60% power, 5,000 ft., standard temperature.

Find the following: RPM, TAS MPH, GPH

30. Find the approximate *range* and *endurance* @ 2300 lbs., zero wind, 38 gallons usable fuel, for the following:

7,500 ft., std. temp., 63% power, recommended lean mixture, 30 min reserve. Range SM, Endurance

31. Find the *landing ground roll* & *landing distance* @ 2300 lbs., full flaps, zero wind, for the following:

a. 5,000 ft., 41 degrees F. Ground roll Total to clear 50 foot obstacle

32. Describe the "Go-Around" procedure.

EMERGENCY PROCEDURES:

33. How do you detect carburetor ice? _____

34. In the event of carburetor ice, what do you do? _____

35. What are the *general* procedures for an engine failure in flight?

36. Find the approximate glide distance. Cruise altitude 7,500 ft. MSL. Terrain altitude 1,000 ft. MSL. ____ SM

37. How do you recover from a spin?

38. What do the following transponder codes mean?

7500

7600

7700

39. Emergency Radio Frequency? _____

40. How can you get the Emergency Frequency on the 430 or GNC 255 with one touch?

Aircraft Specifics: (Reference Checklist, or flight manuals @ gjc.aero/FlightCircle.com)

41. After turning on the Master Switch, what must you wait for before starting the engine? _____

42. If you lose power, what happens to the G3X and other glass instruments? _____

43. If the PFD fails, the G5 battery will last _____ hours.

44. What are the two main pages of the G5? _____

45. What does a yellow “REV” on the HSI indicate? _____

46. On the G5, what does the Message “Not receiving RS-232 Data” indicate? HINT: Available under documents and manuals _____

47. If the aircraft is topped with fuel after the previous flight the PFD/MFD will automatically display the correct fuel amount?

- True
- False

48. If the Guardian CO detector ALERT annunciation activates in flight, what should you do?

Flight Checks –look up but must be demonstrated in flight

49. How do you change the G5 from an ADI (Attitude Display Indicator) to an HSI? _____

50. How do you change the heading bug on the PFD? _____

51. How do you select or change a Nav/Com Frequency? _____

52. How do you adjust the altimeter setting?

53. How do you get to and use the lean assist? _____

54. How can you quickly reference aircraft glide range using the G3X MFD? _____

55. How can you display airport information, including weather, frequencies, runway information, and charts using the G3X MFD? _____

56. How can you see ADS-B traffic alerts using G3X MFD? _____ Garmin 430? _____

Ground Portion: Written Corrected and approved by _____, Date _____

Flight Portion: I certify that I have found _____ competent in the Cessna 172M __

Print Name _____ Signature _____ Flight Circle Updated