CESSNA 400 EQUIPPED WITH GARMIN G1000

After reading through the Information Manual, please complete this assignment. All answers can be found in the Information Manual in the section as noted in the right margin of this form.

Section 1

1. Total Fuel Capacity (Including Unusable Fuel): *1-4*

2. What is the rated BHP at 2600 RPM? *1-4*

3. Oil Quantity Operating Range *1-5*

4. What is the maximum landing weight? *1-5*

5. What is the definition of V_o? *1-6*

Section 2

6. What is the maximum maneuvering speed below 12,000 pressure altitude at 3600 lbs.

2-3

7. What is the maximum full flap extension speed (KIAS): *2-3*

8. Maximum Takeoff Flap Extension Speed (KIAS): *2-3*

9. V_{NO} (KIAS): *2-3*

10. Stall Speed with Landing Flaps (KIAS): *2-3*

11. V_{NE} (KIAS): *2-3*

12. When is the vapor suppression required in flight? *2-4*

13. What is the maximum Turbine Inlet Temperature (TIT)? *2-5*

14. What is the maximum continuous power recommended for cruise flight? *2-4*

15. Maximum Takeoff Weight: *2-6*

16. What is the entry speed for spins? *2-7*

17. What is the maximum fuel imbalance permitted? *2-8*

18. What is the maximum flight altitude? *2-13*

Section 3

19. What is the max. glide speed at max gross weight with flaps retracted? *3-3*

20. What are the first four steps for an engine failure during flight? *3-4*

21. What are the first four steps for an engine failure immediately after takeoff? *3-4*

22. True or False? The first step in an alternator failure is to turn the crosstie switch to the ON position? *3-10*

23. At what over voltage will the regulator trip the alternator off-line? What annunciation will the pilot see? *3-24*

24. What is the procedure if you notice a significant discharge rate from the left ammeter and the L ALT OFF annunciator is illuminated? *3-23*

25. If the pilot experiences a sudden and unexplained change in control stick forces (runaway trim), what first two steps should be taken? *3-12*

26. What is the circuit breaker panel row layout (from top to bottom)? *3-14*

SECTION 4

27. What is the maximum demonstrated crosswind velocity? *4-3*

28. Before takeoff, what is recommended to do with the oxygen system, assuming it will be used in flight? *4-11*

29. What restrictions exist above 18,000ft regarding throttle position? *4-13*

30. What position is the backup fuel pump placed in for landing? *4-14*

31. What should your TIT be set for best power? *4-25*

32. When will restarting a hot engine be most difficult? What is the cause of this? *4-32*

Section 5

33. At max gross weight, what is the recommended rotation speed and climb out speed for a short field takeoff? *5-13*

34. What are the Time, Fuel and Distance to climb from sea level to 17,500 feet? *5-17*

35. Cruising at 18,000ft, OAT is 9 C, at 2400RPM, what MP equals 75% power? *5-28*

36. What is the short field landing approach speed at maximum landing weight? *5-41*

37. At a weight of 3100lbs., what is your speed when over a 50' obstacle and touchdown speed? *5-41*

38. With two people cruising at 18,000 ft and full oxygen, how many hours of oxygen are available? *5-43*

What about 4 people?

39. Can the AC be on for takeoff? What BHP reduction should the pilot expect? *5-44*

SECTION 6

40. Are the baggage nets required for flight? *6-12*

41. Your left battery is dead, is that battery required for a DAY VFR flight? *6-A6*

Section 7

42. What is the purpose of the wing cuffs? 7-6

43. What is the purpose of the aileron servo tab? 7-6

44. What is the primary purpose for the autopilot/trim on/off switch? *7-9-10*

45. Can a heavy object damage a seat, even if the seat's surface is not marred? *7-13*

46. When will you hear an aural warning if one or more of the doors is not secured? *7-14*

47. If both doors are latched and in their detents, what is the most likely cause of a "door open" light? *7-15*

48. How many brake master cylinders are in the airplane? *7-16*

49. Within the propeller governor, how is the pitch of the propeller blades increased/decreased? *7-18*

50. When does oil bypass the oil cooler? *7-19*

51. What is the purpose of the slosh boxes? *7-35*

52. How much useable fuel remains with a low level fuel indication? *7-37*

53. If the fuel selector is not properly seated in its detent, what indication(s) will appear in the cockpit? *7-36*

54. Are the fuel tanks cross vented? *7-35,36*

55. What is the difference between the fuel sumps and the fuel strainer? *7-36,37*

56. What is the difference between the backup boost pump and the primer pump? *7-36*

57. How is heated air provided to the rear seat positions? *7-37,38*

58. Does the airplane have a 14 or 28 volt system? *7-40*

59. How is power fed to the essential bus? Can the essential bus ever lose power if either left or right alternators fail? *7-40*

60. What is the current output for the alternators? *7-40*

61. During normal operations with the ground power plug, should the battery switches be used? What about the cross-tie? *7-47*

62. Which light(s) have the potential for causing a dead left battery? *7-43*

63. For what period of time does the access timer operate the courtesy lights? *7-44*

64. Which lights are illuminated by pushing the press-to-test button? *7-45*

65. How long can you leave the landing and taxi lights turned on? *7-46*

66. How is a Halon fire extinguisher different from a CO_2 unit? *7-53*

SECTION 9

67. Is the Cessna 400 approved for flight into known or forecast icing? *9-11*

68. Is there any danger in leaving the prop heat on too long during ground and pre-flight operations? *9-13*

69. How does the prop heat know it is in ground mode? *9-14*

70. What is the in-flight operation cycle time for the prop heat? *9-13*

The following questions can be found in the G1000 Cockpit Reference Guide

71. How can the emergency frequency be set automatically?

72. Where is the control for cycling between the GPS, VOR1/LOC1 and VOR2/LOC2 CDI selections that appear on the HSI?

73. If the pilot misses the last transmission, how can it be recalled and listened to? How do you exit the playback mode?

74. Pressing the GO AROUND button engages the flight director to do what?

75. Can activating a stored flight plan be done on the PFD, MFD or both?

76. To create a Vertical Navigation Profile, what group and page is this done on?

77. What is the difference between the red and yellow indications on the MAP group?

78. Where will the autopilot annunciations be seen on the PFD (1040)?

79. If one screen fails, what mode does the system automatically go into? Can this mode be manually activated as well?

80. Where is the annunciation Window?

81. What alert level will be noticed by a pilot when a red annunciation is present?

82. How is the Oxygen system turned on or off?

83. How does the pilot set a code into the transponder?

84. When the COM ½ key is selected, how do the COMs function?

85. To display the Navigation Map Page immediately, which key if pressed and held takes the pilot to the default map page?