

Open Book Test – G1000 POH Using the C182T NAV III POH and the G1000 Pilot Guide

Complete the Following test using the C182T NAV III POH and the G1000 Pilots Guide

1) What is the fuel capacity of the aircraft?

2) What type of oil is used?

3) What is the basic empty weight?

4) What is the max gross weight?

5) What is the minimum oil capacity?

6) What are the following components responsible for?

GDU 1040 _____

GMA 1347 _____

GIA 63 _____

GRS 77 _____

GMU 44 _____

GDC 74A _____

GEA 71 _____

GTX 33 _____

7) List the following in KIAS:

Vx _____

Vy _____

Va _____

Vfe _____

Vne _____

Vno _____

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Vs _____
Vso _____

- 8) The PFD gives what information to the pilot? (NOTE: Only list default features of the PFD, not optional information)

- 9) If the AHRS were to fail what would the indication be? What would you do?

- 10) If the Air Data Computer were to fail what would the indication be? What would you do?

- 11) Define the following:

BUS E VOLTS _____
M BUS VOLTS _____
STBY BATT _____

- 12) What can be done if either the PFD or MFD fully fail?

- 13) Prior to start-up you test the STBY BATT but the green light does not illuminate. What does this mean?

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14) What is meant by the term “soft key?”

15) Explain the process to follow in the event of a “Low Voltage” warning?

16) What should be done in the event of a “display cooling advisory?”

17) What is the takeoff distance, and distance to clear a 50’ obstacle under the following conditions:

3100 lbs
Flaps 20°
2400 RPM, Full Throttle and Mixture set Prior to Brake Release
Cowl Flaps OPEN
Paved Level Dry Runway
2500ft Pressure Altitude
15°C
18Kt Headwind Component

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18) When and how should an external power source be used?

19) What is the voltage of the entire electrical system?

20) What is the voltage of the main storage battery?

21) What is the voltage of the standby battery?

22) How do you know which Nav and Com frequencies are active?

23) What do the following colours mean when displayed on the PFD?:

Blue _____
Green _____
Magenta _____
Yellow _____
Red _____

24) When testing the Manual Electric Trim with the right switch to the forward to down position what should illuminate? What has happened if it does not?

25) When decreasing from take-off power to climb power how should throttle and pitch be adjusted?

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26) Where are the cowl flaps set to for a balked Landing?

Questions/Notes:

Reviewed by Flight Instructor:

Date:
