

# PACIFIC FLYING CLUB

## C-172SP Exam

### Checkride & 6-Month Recurrency

Member Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Performance

1) What are the critical speeds for the following conditions?

- a) Power off stall, flaps up \_\_\_\_\_ KIAS
- b) Power off stall, flaps down \_\_\_\_\_ KIAS
- c) Maneuvering speed @ maximum weight \_\_\_\_\_ KIAS
- d) Maneuvering speed @ 2200lbs. \_\_\_\_\_ KIAS
- e) Maximum Flap Extension \_\_\_\_\_ KIAS
- f) Maximum Structural Cruise \_\_\_\_\_ KIAS
- g) Never Exceed Speed \_\_\_\_\_ KIAS
- h) Best Angle of Climb \_\_\_\_\_ KIAS
- i) Best Rate of Climb @ Sea Level \_\_\_\_\_ KIAS
- j) Best Rate of Climb @ 10 000 feet \_\_\_\_\_ KIAS
- k) Maximum Glide Speed \_\_\_\_\_ KIAS

2) What is the anticipated rate of climb with maximum gross weight at 20 Degrees Celsius:

Sea Level \_\_\_\_\_ fpm  
 8 000 feet \_\_\_\_\_ fpm

3) What is the fuel consumption at 65% power, max gross weight standard temp at 4000 feet \_\_\_\_\_ GPH

4) What is the endurance under the conditions in 3) \_\_\_\_\_ Hours

5) What is the maximum gross weight for a C-172SP \_\_\_\_\_ lbs

6) a) Are spins allowed? Yes or No

b) How high is the recommended recovery altitude? \_\_\_\_\_ ft

### Fuel System

1) Maximum fuel quantity, 2 standard tanks \_\_\_\_\_ US Gal

2) With fuel tanks filled to the bottom of the collar, how much fuel is in the aircraft? \_\_\_\_\_ US Gal

3) What happens when there is less than 5 US Gal in the fuel tanks?

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4) What happens if the fuel sensors fail?

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5) How many fuel drains are there and where are they?

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## Electrical System

1) When do you test the STBY BATT? What do you do to test it?

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2) Where will you see an ammeter discharge?

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3) What is the indication that your STBY BATT is being used? What does this mean?

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4 a) How many Avionics Fans are there and how do you check them?

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b) Where is the intake for the Aft Avionics Fan?

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5) What system drives for the following instrument indications?

a) Attitude Indicator _____	d) Airspeed _____
b) Heading Indicator _____	e) Altitude _____
c) Skid Slip _____	f) Vertical Speed _____

## Emergencies

1) What should you reference if any annunciator light illuminates?

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2) State the actions required in the proper sequence for the following emergencies:

a) Engine fire in Flight:

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c) In what order do you reduce electrical load?

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b) High Volts Annunciator

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d) Air Data System Failure (ADC) what will you see? What will you do?

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e) Attitude and Heading reference system failure (AHRS) what will you see? What will you do?

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f) Autopilot or electric trim failure

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## **G1000 - System**

1) Where are all of the instrument gauges found? Ie. Tach, oil pres, oil temp, fuel.

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2) Do you require PFD backlighting if you are flying day VFR?  
Yes or No

3) Do you require the standby ASI to be working for Day VFR?  
Yes or No

4) Must you carry a G1000 cockpit reference guide on board?  
Yes or No

5) How do you get engine information on the PFD?

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6) What does resetting the Fuel Totalizer prior to take off do? Why is its accuracy important?

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## **GFC 700**

1) What does CWS stand for and where is the button?

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2) How do you switch off the AP?

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3) When flying by auto pilot that is navigating using a VOR or GPS track, what happens when you switch to another form of navigation?\_\_\_\_\_

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4) Where should the heading bug be placed prior to take off?

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5) Why is it important to know where the AP circuit breaker is?

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6) Why is it unadvisable to try and control the aircraft when the autopilot is engaged?\_\_\_\_\_

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7) When in turbulence you find the autopilot has slowed down the aircraft below 70kts. What is your course of action?

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