

PINNACLE AVIATION ACADEMY

CESSNA 172SP CHECKOUT - WRITTEN **PILOT:** _____

INSTRUCTOR: _____ **DATE:** _____

OBJECTIVE: With the use of the Pilot's Information Manual, the pilot will be able to identify information relating to the safe operation of the **Cessna 172SP**. Each question is followed by a reference number which indicates the page in the PIM where information on the question may be found.

AIRCRAFT LIMITATIONS

1. What is the Never Exceed Speed (Vne)? (2-4) _____
2. What is the Maneuvering Speed (Va) at **2,550** lbs.? (2-4) _____
3. What is the Maximum Flap Extended Speed (Vfe)? (2-4)
 - a) 10°? _____.
 - b) 10° - Full flaps _____.
4. What is the Maximum Takeoff Weight? (2-8) _____
5. What is the combined Maximum Weight in the baggage for both compartment 1& 2? (2-8)

6. What is the Maximum fuel quantity for standard fuel tanks? (2-18) _____
7. What is the total usable fuel (all flight conditions)? (2-18) _____

EMERGENCY PROCEDURES

1. What is the airspeed for maximum glide? (3-5) _____
2. What is the procedure for engine failure immediately after takeoff? (3-6) _____

3. What is the procedure for engine failure in flight? (3-7) _____

4. What is the procedure for a loss of alternator output (Ammeter shows discharge)? (3-11)

NORMAL PROCEDURES

- 1. What is the initial climb speed after a normal takeoff? (4-18) _____
 - 2. What is the initial climb speed after a maximum performance takeoff? (4-18) _____
 - 3. What is the enroute climb speed? (4-19) _____
 - 4. What is the recommended lean procedure? (36/37) _____
 - 5. What is the flaps down final approach speed for a normal landing? (4-21) _____
 - 6. What is the initial balked landing (go around) speed? (4-22) _____
 - 7. What is the engine cold starting procedure? (4-12) _____
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- 8. What is the engine hot starting procedure? (4-12) _____
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PERFORMANCE

- 1. What is the most fwd. CG, **2550** lbs, flaps up, 45 deg bank stall speed? (5-13)_____
- 2. What is the takeoff distance to clear a 50 ft. obstacle using max perform procedures, at gross weight, 6,000 ft. elevation and 30 degrees C? (5-15) _____
- 3. What is the expected fuel consumption at a cruise altitude of 6,000 ft. with power set at **2,550** rpm and 20 deg. above standard temp? (5-20)_____
- 4. What is the expected maximum range with **53.0** gallons usable fuel and a 45 min reserve at 70% power, 6,000 ft., zero wind and std. temp. ? (5-22) _____
- 5. What is the landing distance over a 50 ft. Obstacle using max perform procedures, at gross Weight, 6,000 ft. Elevation and 30 degrees C? (5-24) _____

WEIGHT AND BALANCE

- 1. Using the sample loading chart (the same basic empty weight and moment) On page (6-10), determine the takeoff weight and moment with full standard Tanks, a pilot weight of 180 lbs., a passenger weight of 150 lbs., passenger Weights of 80 lbs and 100 lbs and baggage weight in Area 1 of 10 lbs. (6-10 to 6-16)
 - a. What is the Takeoff Weight? _____
 - b. What is the Moment? _____
 - c. Is this configuration within the CG/Moment envelope? _____