

# ***PINNACLE AVIATION ACADEMY***

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**CESSNA 172R 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 172R**. 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 **2,450 lbs.**? (2-4) \_\_\_\_\_
3. What is the Maximum Flap Extended Speed (Vfe)? (2-4) \_\_\_\_\_
4. What is the Maximum Takeoff Weight? (2-6) \_\_\_\_\_
5. What is the Maximum Weight in the baggage compartment 1 & 2? (2-7) \_\_\_\_\_
6. What is the Maximum fuel quantity for standard fuel tanks? (2-11) \_\_\_\_\_
7. What is the total usable fuel (all flight conditions)? (2-9) \_\_\_\_\_

## **EMERGENCY PROCEDURES**

1. What is the airspeed for maximum glide? (3-3) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What is the procedure for engine failure immediately after takeoff? (3-4) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What is the procedure for engine failure in flight? (3-4) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
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? (4-14) \_\_\_\_\_
  2. What is the initial climb speed after a maximum performance takeoff? (4-15) \_\_\_\_\_
  3. What is the enroute climb speed? (4-15) \_\_\_\_\_
  4. What is the recommended lean procedure? (4-26) \_\_\_\_\_
  5. What is the flaps down final approach speed for a normal landing? (4-16) \_\_\_\_\_
  6. What is the initial balked landing (go around) speed? (4-16) \_\_\_\_\_
  7. What is the engine cold starting procedure? ( 4-12 ) \_\_\_\_\_
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8. What is the engine hot starting procedure? ( 4-12 ) \_\_\_\_\_

## PERFORMANCE

1. What is the most fwd. CG, **2450** lbs, flaps up, 45 deg bank stall speed? (5-11) \_\_\_\_\_
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? (5-14) \_\_\_\_\_
3. What is the expected fuel consumption at a cruise altitude of 6,000 ft. with power set at **2,350** rpm and 20 deg. above standard temp? (5-17) \_\_\_\_\_
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. ? (5-19) \_\_\_\_\_
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? (5-21) \_\_\_\_\_

## WEIGHT AND BALANCE

1. Using the sample loading chart (the same basic empty weight and moment) on page (6-12), 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. (6-12 to 6-16)
  - a. What is the Takeoff Weight? \_\_\_\_\_
  - b. What is the Moment? \_\_\_\_\_
  - c. Is this configuration within the CG/Moment envelope? \_\_\_\_\_

