

**Cessna 172M**

**Normal Procedures Test**

**Rocky Mountain Flight Center**



**(Ref: Cessna 172M Pilot's Operating Handbook, FTC & SOP)**

***Please do not mark on booklet***



7. Final approach airspeeds, flaps, up and down are:
- | <u>Flaps Up</u> | <u>Flaps Down</u> |
|-----------------|-------------------|
| a) 50-60 kts    | 65-75 kts         |
| b) 65-75 kts    | 50-60 kts         |
| c) 60-70 kts    | 55-65 kts         |
| d) 66-65 kts    | 60-70 kts         |
8. After starting the aircraft, if the oil gauge does not begin to show pressure within \_\_\_\_\_ in the summertime and about \_\_\_\_\_ that long in very cold weather, stop the engine and investigate.
- |               |            |
|---------------|------------|
| a) 60 seconds | 30 seconds |
| b) 45 seconds | twice      |
| c) 30 seconds | twice      |
| d) 15 seconds | 30 seconds |
9. During a high altitude takeoff in hot weather, it is recommended that \_\_\_\_\_ flaps be used for takeoff.
- |               |
|---------------|
| a) 0 degrees  |
| b) 10 degrees |
| c) 20 degrees |
| d) 30 degrees |
10. With average pilot technique, direct crosswind landings of \_\_\_\_\_ knots can be handled with safety.
- |             |
|-------------|
| a) 10 knots |
| b) 12 knots |
| c) 15 knots |
| d) 18 knots |
11. Caution, pumping the throttle may cause raw fuel to accumulate in the intake duct, creating a fire hazard in the event of a backfire.
- |          |
|----------|
| a) True  |
| b) False |
12. Best glide speed with flaps up is:
- |            |
|------------|
| a) 65 KIAS |
| b) 60 KIAS |
| c) 63 KIAS |
| d) 67 KIAS |

13. The stall speed at max gross weight, forward CG, flaps up, 60 degrees bank is:
- 66 KIAS
  - 75 KIAS
  - 47 KIAS
  - 59 KIAS
14. Takeoff distance weighting 2100 lbs., with pressure altitude of 6000 ft, and temperature of 30 degrees Celsius is: (due to the refit with 180 HP engine in 1999 the actual performance will be "equal to or greater than" that shown in the performance charts)
- Ground roll                      1185'
  - To clear 50 ft obstacle      2140'
  - Ground roll                      1080'
  - To clear 50 ft obstacle      2435'
15. Rate of climb at 2300 lbs, with a pressure altitude of 8000', and a temperature of 20 degrees Celsius is: (due to the refit with 180 HP engine in 1999 the actual performance will be "equal to or greater than" that shown in the performance charts)
- 390 fpm
  - 280 fpm
  - 255 fpm
  - 365 fpm
16. Compute approximate time, fuel, and distance to climb from the Colorado Springs airport to 9000 ft MSL: (due to the refit with 180 HP engine in 1999 the actual performance will be "equal to or greater than" that shown in the performance charts)
- |    | <u>Time</u> | <u>Fuel</u> | <u>Distance</u> |
|----|-------------|-------------|-----------------|
| a) | 21 min      | 3.9 gal     | 28 NM           |
| b) | 12 min      | 2.3 gal     | 16 NM           |
| c) | 9 min       | 2.6 gal     | 13 NM           |
| d) | 9 min       | 2.7 gal     | 12 NM           |
17. Cruise performance (Airspeed & Fuel Flow) at 8000 ft MSL, 59% power, and 20 degrees Celsius above standard temperature is: (due to the refit with 180 HP engine in 1999 the actual performance will be "equal to or greater than" that shown in the performance charts)
- |    | <u>Airspeed</u> | <u>Fuel Flow</u> |
|----|-----------------|------------------|
| a) | 110 kts         | 6.9 gph          |
| b) | 97 kts          | 15.2 gph         |
| c) | 105 kts         | 6.8 gph          |
| d) | 108 kts         | 7.6 gph          |

18. Cruising Range Calculations: Fuel consumption range / endurance information originally presented in the Pilots Operating Handbook (POH) do not apply after the refit in 1999 with a 180 HP engine. However, using the (POH) charts as a very optimistic reference, calculate range with a 45-minute reserve, starting with 38 gallons of usable fuel, at 10,000 ft pressure altitude, and at 45% power.
- a) 479 NM
  - b) 485 NM
  - c) 470 NM
  - d) 460 NM
19. Landing distance at maximum gross weight, at 6000' pressure altitude, a temperature of 86 degrees Fahrenheit, and with 9 kts headwind is:
- a) Ground roll                      616'
  - b) To clear 50' obstacle        1535'
  - c) To clear 50' obstacle        1381.5
  - d) Ground roll                      705'
20. What is the maximum flap setting (since the 1999 refit with a 180 HP engine)?
- a) 10 degrees
  - b) 20 degrees
  - c) 30 degrees
  - d) 40 degrees