

Name _____

Date _____

CESSNA 172N PRE SOLO WRITTEN EXAMINATION

1. The maximum takeoff weight of the Cessna 172 is _____ lbs.
2. The never exceed speed (Vne) is _____ knots.
3. The maximum flap extension speed is _____ knots (top of the white arc).
4. The stall speed in landing configuration (flaps down) is _____ knots.
5. The stall speed with no flaps extended is _____ knots.
6. The center of gravity limits are _____ inches forward and _____ inches aft of datum.
7. Total useable fuel is _____ gallons.
8. Approved fuel grade is _____ and is _____ in color, or _____ and is _____ in color.
9. Emergency airspeed for engine failure after takeoff with flaps up is _____ knots.
10. Maximum glide airspeed after an engine failure in cruise is _____ knots.
11. For an inflight electrical fire condition, the following steps shall be followed:
 - 1
 - 2
 - 3
 - 4
 - 5
12. After an engine failure in cruise flight, the first response is _____.
13. A gradual loss of RPM and eventual engine roughness may result from _____.
14. Normal climbout speed is _____ knots
15. Maximum turbulent air penetration speed (maneuver speed) is _____ knots.
16. Maximum demonstrated crosswind velocity is _____ knots.
17. Engine oil level should be between _____ and _____ quarts of _____ oil.
18. In cruise, at 5000 ft, 65% power will result in a fuel consumption of _____ GPH.
19. At 2000 ft cruise, 65% power will yield a range of _____ miles.
20. At 2500 ft cruise, 76% power will result in an endurance of _____ hours.
21. Takeoff distance to clear a 50 ft obstacle at 5000 ft PA, 20 deg above standard and max gross weight is _____ feet.

- 22 The fuel selector valve should be in the _____ position for takeoff and landing.
- 23 Electrical energy is supplied by a ____ amp ____ volt battery and a _____ volt engine driven alternator.
- 24 Do not operate engine with less than _____ quarts.
- 25 Main gear tire pressure is _____ psi and nose gear tire pressure is ____ psi.
26. FAR Part 61 prescribes requirements for pilot _____ and _____ and _____ of those certificates.
- 27 Part 61 requires that a person serve as a required pilot flight crewmember of an aircraft only if that person holds an appropriate _____ (PPL/CPL/ATP).
- 28 Under part 61, a student pilot must hold at least a _____ class medical certificate.
- 29 A third class medical expires after how many years for a person under 40 years of age _____? Over 40 years of age? _____
- 30 General Operating and Flight Rules are covered under Part _____ of the FARs.
- 31 As per FAR Part 91, who is responsible for and is the final authority as to the operation of an aircraft? _____.
- 32 In-flight visibility and cloud clearance requirements for class E airspace is _____ SM and _____ above, _____ below and _____ horizontal distance from a cloud.
- 33 Part 91 requires the following documents/certificates to be onboard the aircraft for operation _____, _____, _____, _____.
- 34 T F A student pilot holding a second class medical is authorized to carry one passenger on a flight if that flight is not for hire and is conducted within 25 nautical miles of the departure airport.
- 35 T F A pilot may operate an aircraft in the United States if passenger(s) are carrying narcotic drugs, marijuana, stimulants or depressants as long as they inform the pilot and the drugs are stowed in the baggage compartment and not in reach for the duration of the flight.
- 36 T F A pilot is required to submit a written report to the NTSB within 10 days after any incident or accident occurs.
- 37 When a student's pilot certificate is endorsed for solo flight, is that pilot permitted to make solo cross country flights?
- 38 Except for take-off and landing, what is considered to be a minimum safe altitude?

40 What is the standard direction for all turns for an airplane approaching to land at an airport without a control tower?

41 How can class E airspace be identified on a sectional chart?

42 What marking is used to indicate the closure of a runway or taxiway?

43 Fill in the appropriate speeds:

V_{so}_____

V_x_____

V_y_____

V_{s1}_____

V_{no}_____

V_{ne}_____

Compute the weight and balance for yourself and full fuel

	Weight	Arm	Moment
You	_____	_____	_____
Fuel	_____	_____	_____
Baggage	_____	_____	_____
Total	_____	_____	_____

Is your aircraft within weight and balance limits?