UNITED FLYING CLUB

*CESSNA 172**
FLIGHT MANUAL REVIEW

Pilot _____ Member# _____ Total Flight hrs. _____

Reviewed by _____Date _____
(instructor)

*Note there are variations in performance and specifications between different year and model designations. Performance charts will vary based on the production number (serial number) of the specific aircraft. Indicate below the specific aircraft your information is based upon. *References for the following questions are found in the POH / C172 Information Manual.*

Aircraft year _____ Model _____ s/n _____

1) What is the engine horsepower rating? _____ BHP@ _____ rpm
2) What is the correct fuel grade? _____
3) What is the total fuel capacity? _____ What is the total usable fuel? _____
4) What is the total capacity of each tank? _____ What is the usable fuel of each tank? _____
5) What is the oil sump capacity? _____ What is the recommended oil viscosity? _____
6) What is the minimum oil operating level? _____
7) What is the aircraft's maximum gross weight? _____
8) What is the basic empty weight? *(use actual aircraft empty weight)* _____
9) What is the useful load? *(use actual aircraft useful load)* _____ With full tanks? _____

10) List the following speeds ***KIAS***
(based on gross weight, forward C.G., and Sea Level conditions where applicable)

Vx _____ Vs _____
Vy _____ Vs (60 deg. Bank) _____
Vne _____ Vso _____
Vfe _____ Va _____

Best angle of glide speed: _____
Normal approach speed with full flaps: _____ Without Flaps_____
Maximum demonstrated crosswind component: _____

11) What happens to Va as gross weight is decreased? _____

12) When should the mixture be leaned in flight? _____

_____

13) What are the indications of induction system icing and what action should be taken?

_____

_____

_____

14) What would indicate an alternator malfunction, and what is the corrective action?

_____

_____

15) Describe the Balked Landing procedure:

_____

_____

_____

16) What is the minimum runway length for takeoff under the following conditions:

Max. Gross Weight, 9kt headwind, sea level, 68f temperature, 50' obstacle ? _____

Max. Gross Weight, no wind, 3000' elevation, 86f temp, 50' obstacle? _____

17) How much fuel will be used for engine start, taxi, takeoff and climb from sea level to 5500' (standard temperature) _____

18) What is the TAS and fuel consumption, under the following conditions?

Mixture Lean; 65% power; 7000' Pressure Altitude; Standard Temperature

TAS _____Fuel Consumption _____

19) What is the landing distance required under the following conditions? _____

* 3000' pressure altitude * 50' obstacle * 0 wind
* 86 degrees Fahrenheit * gross weight * Maximum performance technique

20) Under the following conditions, the aircraft is within weight and balance limitations? T / F

* pilot & front passenger 195 & 180lbs * rear passengers 165 & 140lbs
* baggage area 1 20 lbs * full fuel

21) Magnetos are checked at _____ RPM. Max drop is _____ RPM, with difference between the two mags not to exceed _____ RPM.