Complex Aircraft Checkout

Aircraft Make and Model _____.
Engine Make and Model _____.
Rated Horsepower_____ BHP at _____ RPM
Propeller Type_____.
Maximum Gross Weight_____LB. Maximum Weight in Baggage _____LB.
Basic Empty Weight for N_____is_____ LB. _
Useful Load for N _____ is _____LB.

Speeds

Vne _____ KIAS Vfe_____KIAS Vr _____ KIAS
Vno _____ KIAS Vy _____KIAS Vso_____ KIAS
Va _____ KIAS at _____LB. Vx_____KIAS Vs1_____ KIAS
Enroute Climb Speed _____ KIAS Vlo_____KIAS Vle_____KIAS
Final Approach Speed with Flaps Down _____ KIAS
Final Approach Speed with Flaps up _____ KIAS
Demonstrated Crosswind Component _____ KIAS
Best Glide Speed _____ KIAS

Fuel/Oil System

Number of Fuel Tanks _____.
Total Capacity of each Tank _____.
Total Usable Fuel _____ Gallons
Where are the fuel drains located?_____.
Fuel Grade and color _____.
Oil Capacity _____ Qt.
Minimum Oil Quantity for Flight _____ Qt.
Oil Type Used _____ 50 Wt.

Electrical System

_____Volt Battery _____ Volt Alternator
If the ammeter is indicting a Discharge, what might this be indicative of?
1. _____ or
2. _____.
Where is the battery Located _____.
Where is the External Power Receptacle Located _____.

Landing Gear

1. What are the unsafe gear indications?_____
2. What is the procedure for emergency gear extension?_____

_____

Power Setting and Engine Care

1. What is Climb Power Setting? _____ MP _____ RPM.
2. What is Cruise Power Setting? _____ MP _____ RPM.
3. During a descent from cruise altitude, the engine should be "stage cooled" at _____. inches of manifold per _____.minute (s).
4. What power setting should be established for entering the traffic pattern? Approximate MP_____and RPM _____.

5. **Cowl Flaps should be OPEN/CLOSED.....**

_____ **While Taxiing**
_____ **During Climb to Altitude**
_____ **During Cruise Flight**
_____ **During Descent from Altitude**
_____ **After Landing and Clear of Runway**

Aircraft Performance

1. Complete the following Weight and Balance

Basic Empty Weight	_____ **LB.**	**Moment**	_____
Usable Fuel	_____ **LB.**	**Moment**	_____
Pilot and Front Passenger	_____ **LB.**	**Moment**	_____
Rear Passengers	_____ **LB.**	**Moment**	_____
Baggage	_____ **LB.**	**Moment**	_____

Total Weight_____ **LB. divide by Total Moment**_____=_____**CG**

2. Takeoff

Calculate the ground roll and total to clear a 50 foot obstacle takeoff distances at maximum gross weight, departing from a field elevation of 2500 feet. ATIS reports wind calm and temperature 20 degrees C.

3. Enroute:

Calculate the maximum endurance and fuel flow per hour at 7500 feet cruise altitude, using a cruise power setting of 21 inches MP and 2400 RPM.

What percentage BHP and TAS can you expect with this pressure and 2300 RPM?

4. Landing:

Calculate the ground roll and total to clear a 50 foot obstacle landing distance at maximum gross weight, sea level field elevation, standard temperature, wind calm.

5. What is the recommended short field approach airspeed and configuration?_____

_____

6. What is the recommended soft field take off and landing procedure?_____

_____

7. Describe the "Go Around" procedure:_____

_____

Pilots Name _____

Date _____

Instructor _____

Complex Aircraft Checkout

Name_____

Date Last Biennial_____ **or Date Last Annual**_____

Date Last Medical _____ **Class**____ **Pilot Cert.#**_____

Hours PIC_____ **Hours last 6 months**_____ **Pilot Ratings**_____

Aircraft Check Out (Date)_____ **Type A/C**_____**N**_____

Phase I: Oral Operational Quiz	**Check if satisfactory**
Recent changes in FAR's	_____
Airspace, controlled and uncontrolled	_____
Airplane and equipment documents	_____
Airplane performance and proper operation of all installed equipment	_____
Airplane loading, weight and balance	_____
Preflight line check	_____
High Altitude operations (density altitude)	_____
Phase II: Basic Piloting Technique	
Normal and crosswind takeoffs and landings	_____
Short field takeoff and landing over 50' obstacle	_____
Soft field takeoff and landing	_____
Flight at minimum controllable airspeeds	_____
Stalls from all normally anticipated flight attitudes	_____
Go-arounds	_____
720° steep turns(45° bank minimum)	_____
Slips to a landing	_____
In-flight emergency procedures	_____
Simulated equipment failures	_____
Radio communication and navigation	_____
High Density Altitude Operations	_____
Other (specify)_____	_____
Phase III: Instrument Flight	
Straight and level, shallow climbing and descending turns to given altitude heading	_____
Approaches (#_____**,type**_____**), for IFR pilots**	_____
Recovery from start of power-on spiral	_____
Recovery from the approach to a climbing stall	_____
High Density Altitude Flight Operations	_____
Emergency descents	_____
Other (specify)_____	_____

Comments _____

Instructor Name _____ **Signature** _____

CFI No. _____**Expiration Date** _____

Signature of pilot _____ **Date** _____