PILC	J1
INST	TRUCTOR
DAT	<u></u>
Cagg	ro 173N (Month Onic Toil 22457
Cessi	na 172N 6-Month Quiz Tail: 2345Z
1.	Date of current aircraft weight and balance computations
2.	Aircraft empty weight: lbs.
3.	Maximum normal category takeoff gross weight: lbs. Normal category Useful Load: lbs.
4.	Maximum utility category takeoff gross weight: lbs. Utility category Useful Load: lbs.
5.	Full fuel usable quantity:gal.
6.	Maximum passenger and baggage weight with full fuel:lbs.
7.	Tire pressures are psi for the nose tire and for the main tires.
8.	Minimum oil quantity is qts. System oil capacity is qts. For local training flights, oil would not be added above qts.
9.	Can the 50-hour oil change maintenance interval be overflown?
10.	What oil type is approved for this engine?
11.	Where is the oil located to top off?
12.	How many fuel system drains should be sampled during preflight? Where are these fuel system drains located?
13.	What data applies for engine start, runup, taxi, and climb to 6,000' on a day 10°C above standard? Gallons Minutes Nautical miles
14.	Assume cruising at 6000' on a standard day at 67% BHP, the POH indicates: RPM KTAS GPH
15.	Assuming takeoff conditions in question 11 and cruise conditions in question 12, with full fuel and maximum passenger and baggage weight at takeoff and allowing 10 gallons in the tanks at landing for reserve, the maximum range of the aircraft with a 20-knot headwind is pautical miles.

16.	What are the values for the following (indicated) airspeeds?
	Vso
	V_{S}
	V_{X}
	Va (at 2,200 lbs)
	Vno
	Vne
	Takeoff rotate
	Enroute climb
	Best glide (at max gross weight)
	Go around at Flaps °
17.	What is the maximum airspeed at which Flap 10° can be extended? knots.
	What is the maximum airspeed at which more than Flap 10° can be extended? knots.
18.	What is the correct flap position for a Normal Takeoff?°.
	What is the correct flap position for a Short Field Takeoff?°.
	What is the correct flap position for a Soft Field Takeoff?°.
19.	What is the maximum entry speed for performance of a Steep Turn? knots
20.	What is the ground roll distance and the total distance required to clear a 50-foot obstacle on takeoff for the following conditions using the POH numbers: Runway 9; Pressure altitude 4000 feet; temperature 30°C; Wind 270 at 6 knots; maximum gross weight; hard runway? ground roll to clear 50-foot obstacle
21.	What is the ground roll distance and distance required to clear a 50-foot obstacle when landing for the following conditions using the POH numbers: Runway 9; grass; Pressure altitude 2000 feet; temperature 20°C; Wind 090 at 9 knots; maximum gross weight? ground roll to clear 50-foot obstacle
22.	In order to develop full power when above 3000 feet MSL, the mixture should be adjusted to "recommended lean". What temperature on the EGT represents this mixture?
23.	How many minutes of backup battery is available for the PFD and Backup EFIS in case of power failure?
24.	Where is the Hobbs and Tach meter located?
25.	Why does the PFD need to be fully booted before engine start?
26.	What is important to consider during shutdown?