## **ARROW COMPLEX AIRCRAFT CHECKOUT EXAM**

1.	Upon entering the airplane, you notice the landing gear lever is in the up position. If the master switch is turned o prior to placing the gear lever down, what will happen?			
2.	. Prior to engine start on a cold day, priming] is accomplished by?			
3.	. If the engine is flooded and will not start, what should you do?			
4.	The reason for cycling the propeller pr	rior to flight is to?		
5.	. Maximum RPM reduction during propeller cycling is			
6.	5. After departure, the landing gear should remain down until, and should be i takeoff is made from a wet or slushy runway during the winter months.			
7.	After departure you should go to climb	b power upon reaching feet AGL	or higher. Explain why.	
8.	For the following, choose the correct control movement sequence when adjusting power:			
	Full to Climb Power	Low Cruise to High		
	b. Prop., Mixture, Throttle.	a. Mixture, Prop., Throttle.		
	a. Mixture, throttle, Prop.	b. Throttle, Mixture, Prop.		
	c. Throttle, Prop., Mixture.	C. Throttle, Prop., Mixture.		
9.	Atmospheric pressure reduces by approperations?	roximately 1" per 1,000 feet of altitude	gain. How is this relevant to aircraft	
10.	Provide the following:			
	VR (rotation speeds) VX (best angle of climb)	_kts _kts gear down,kts gear up		
	VY (best rate of climb)	kts gear down,kts gear up		
	V <sub>LE</sub> (max landing gear extended) V <sub>LO</sub> (max landing gear operating)	_kts kts		
	V <sub>E</sub> (max flap extension)	_kts		
	Vso (stall speed)	_kts		
	V <sub>s</sub> (stall speed) V <sub>A</sub> (maneuvering speeds)	_kts kts		
11.	notches or degrees of fl	laps are recommended for short and so	ft field takeoffs.	
		· ·		

12.	Three green lights indicate the landing gear is down and locked. What can you do if one or more of the lights will not lluminate?			
13.	Emergency extension of the landing gear is accomplished by?			
14.	I. How will the use of the panel or Nav lights effect the landing gear and locked lights during the day?			
15.	5. Where is the squat switch for the landing gear located? What is its purpose?			
16.	5. What effect would leaving the emergency gear lever partially engaged and/or not secured properly have on your fligh as you return to the airport for landing?			
17.	If you are unable to restart the engine after failure, immediately trim forkts and move the propeller pitch orRPM so as to obtain the maximum glide performance?			
18.	List the conditions where the landing gear unsafe warning will sound if you fail to lower the gear level.			
19.	Given the following, how far will the airplane glide: Cruise Pressure Altitude: 9,000' Cruise OAT: 0° Celsius Terrain Pressure Altitude: 1,000 Terrain OAT: 20° Celsius			
20.	Given the following, find the landing distance over a 50 foot obstacle:  Destination Pressure Altitude: 1,000'  OAT: 59° Fahrenheit  Weight: 2,750 lbs  Wind: 315° @ 20 knots  RWY: 27  Approach Speed: 74 knots			
21.	Determine whether or not this airplane is loaded properly:  Basic Empty Weight: 1,812.4 lbs, CG: 88.08 in  Pilot & Front Passenger: 310 lbs (total)  Rear Passenger(s): 115 lbs (total)  Fuel (72 gal): 432 lbs  Baggage: 120 lbs			