Pre-solo Knowledge Exam

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1.	Who is responsible for ensuring an aircraft is in airworthy condition prior to any flight?
2.	If two aircraft of the same category are converging on a head-on collision course with one another, what action should be taken by which pilot?
3.	Describe the minimum safe altitudes at which you may operate an aircraft.
4.	What is the purpose of adjusting the fuel to air mixture for density altitude?
5.	Describe the pitot/static system and which instruments would be affected by a clog in either system's port.
6.	What are the purpose of wing flaps and describe how they work?
7.	Why is it important to stay coordinated during a stall?
8.	In the event of an engine failure while in-flight, what is the first thing you should do?

9.	9. What certificate(s) are required to be on board the aircraft prior to flighto be considered airworthy?	t in order for the aircraft
10.	10. What are the indications of carburetor icing and what can a pilot expect carburetor heat to alleviate or prevent ice?	t when applying
11.	a) Taxiways at a towered airport? b) Taxiways at an untowered airport? c) Runways at a towered airport? d) Runways at an untowered airport? e) Local airspace above a towered airport? f) Local airspace above an untowered airport?	
12.	12. What is a hold short line, what does it look like, and where is it located?	
13.	13. What actions must be performed prior to crossing any hold short lines a	at an airport?
14.	 14. To legally operate in the following airspaces, what equipment is needed a) Class A b) Class B c) Class C d) Class D e) Class E 	1?

15.	What actions are required prior to entering the following airspaces a) Class A b) Class B c) Class C d) Class D e) Class E
16.	During a landing, when should a pilot go-around and what is the proper procedure for doing so?
17.	What is the proper procedure to recover from a stall? A spin?
18.	How should a pilot address an engine fire on the ground during engine start?
19.	What should a pilot do if an engine failure occurs immediately after takeoff with no usable unway remaining?
20.	What action(s) can be taken to cool an overheating engine while in-flight?
21.	Describe detonation and pre-ignition and list possible causes of each.
22.	When can a student pilot log PIC time?

23. Wha	t limitations a	are placed on a student pilot's operating p	orivileges?		
24. Wha	24. What pre-flight information/action is required before any flight?				
		and documents must a person have in his	/her possession to act as pilot-in-		
26. List the following information for your aircraft: a) Aircraft make and model b) Empty weight Gross weight c) Total fuel Useable fuel d) Oil minimum Oil maximum					
	V-speed	How is it marked?	What is it?		
-	V_{s0}				
-	V_{s1}				
-	V _r				
-	V _y				
	V _g				
<u> </u>	V_{fe}				
	V _{no}				
	V_{ne}				
27. Wha	t is the maxir	num demonstrated crosswind component	for your aircraft and what does that		

28.	a) b)	Beacon? Strobes?
		Position lights? Landing light?
29.	Describ	e the electrical system on your aircraft.
30.	Who ha	as the final authority in determining whether it is safe to fly?
31.	What li	mitations will you set for yourself when solo flying?
32.	How do	you determine whether or not you are physically and mentally fit to fly?