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## AVIA 101 Homework Assignment # 1 Answers are located in your Jeppesen Private Pilot Manual

## **Chapter 2 Airplane Systems**

1.	Describe both:
	> monocoque airplane structure -
	> semi-monocoque airplane structure -
2.	Where are the following located on an airplane?
	<ul> <li>Aileron –</li> <li>Flaps –</li> <li>Vertical stabilizer –</li> <li>Horizontal stabilizer –</li> <li>Rudder –</li> <li>Elevator –</li> <li>Stabilator –</li> </ul>
3.	List the four steps in the four stroke operating cycle of most reciprocating engines:
	1. 2. 3. 4.
4.	How and when does carburetor ice occur?
5.	How would a pilot combat the effects of carburetor ice in an engine with a float-type carburetor?
б.	How does a magneto work? What is the negative effect of loose or broken wires in the ignition system?

7.	Describe:  > Preignition-
	> Detonation-
8.	When does air cooling of the engine become less effective? What is the effect of the excessive heat?
	In regard to the airspeed indicator, what is the:  > Yellow arc - > Green arc- > White arc- > Red line -  Describe the purpose of: > Turn coordinator –
	<ul> <li>Attitude indicator –</li> <li>Vertical speed indicator –</li> <li>Magnetic compass –</li> <li>Heading indicator -</li> </ul>