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MODULE – 8 (AUGUST 2017 SET 2) BASIC AERODYNAMICS

1. ISA Makes for?
 - A. Standardized the temperature, pressure and density
2. ISA includes ?
 - A. Pressure and density
3. Directional control provided by?
 - A. Rudder**
4. For steeper turn?
 - A. High speed
 - B. High speed, AOA**
 - C. High speed, AOA, at stalling speed
5. To reduce induced drag to minimum
 - A. Aspect ratio should be max
 - B. Aspect ratio should be least**
 - C. .
 - D. .
6. Temp below height suddenly drop in
 - A. Troposphere
 - B. Stratosphere**
 - C. Ionosphere
 - D. .
7. Which angle provides lateral stability?
 - A. Sweptback angle**
8. Sweptback angle provide which stability?
 - A. Lateral**
9. A/C Takeoff angle of attack during climbing?
 - A. Toe at 25' of AOA
 - B. Above the stalling speed
 - C. Below the stalling speed**
10. In accomplished with the engine
 - A. Flat route
 - B. Reduce speed**

- C. High speed
11. The direction stability may define according to ?
- A. Stick fixed
 - B. Stick Free
 - C. Both**
12. Aspect ratio for subsonic?
- A. 2 to 1**
 - B. 4 to 1
 - C. 6 to 1
13. Except..... drag all drag are directly proportional to the surface area?
- A. Parasite drag
 - B. Induced drag**
 - C. Form drag
14. Weight of the air act to that surface?
- A. Force
 - B. Pressure**
 - C. NOTA
15. In the area SCC from which we can measure the angle to the direction of the airflow?
- A. Chord line**
 - B. Line of zero lift
 - C. Line of neutral lift

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