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### **MODULE 8: BASIC AERODYNAMICS MARCH 2017 QUESTION**

**1. IN FLAT TURN**

- a)pitching only
- b) yawing only\***
- c) pitching and yawing

**2.IN THE HALF WAY THE STABILITY BETWEEN STABILITY AND INSTABILITY IS CALLED**

- a)perfect stability
- b)out of trim stability
- c)neutral stability\***

**3.DIRECTIONAL CONTROL PROVIDED BY**

- a)aileron
- b)elevator
- c)rudder\***

**4.IF THE ASPECT RATIO-----,THE INDUCED DRAG WILL BE HALVED**

- a)halved
- b)doubled\***
- c)not effected

**5.IF AN AIRCRAFT HAVING INFINITE ASPAECT RATIO THEN IT WILL NOT SUBJECTED TO**

- a)wingtip vortices
- b)induced drag
- c)wingtip vortices and induced drag\***

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### MODULE – 08 (March 2017 Set 2) Basic Aerodynamics

6. IF AN AIRCRAFT BANK TURN, THE ANGLE OF ATTACK IS INDEPENDENT FROM

- a) lift
- b) drag
- c) weight\***

7. DENSITY OF AIR AT SEA LEVEL

- a) 1.225 kg/m<sup>3</sup>\***
- b) 1.025 kg/m<sup>3</sup>
- c) 1.205 kg/m<sup>3</sup>

8. THE LAPSE RATE IN THE STRATOSPHERE REGION

- A) 6.5 k/feet
- b) 0 k/feet\***
- c) 5 k/feet

9. THE AMOUNT OF AIR IN THE ATMOSPHERE APPLIES-----AT THE TOP OF SURFACE

- a) force
- b) pressure\***
- c) weight

10. DENSITY OF AIR

- a) weight per unit volume
- b) mass per unit volume\***
- c) mass per unit area

11. IF THE AIRCRAFT IS SIDESLIP WHICH STABILITY IS AFFECTED

- a) lateral stability\***
- b) longitudinal stability
- c) vertical stability

12. IF THE THRUST LINE IS PLACED ABOVE THE DRAG, THE NOSE OF THE AIRCRAFT IS TEND TO

- a) pitched nose up aircraft
- b) pitched nose down aircraft\***
- c) none

13. THE AILERON CONTROL IS USED TO PROVIDE CONTROL AROUND TO

- a) lateral control in longitudinal plane\***
- b) longitudinal control in lateral plane

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### MODULE – 08 (March 2017 Set 2) Basic Aerodynamics

c) both



c)both

14.IN STREAMELINE ,THE AIR

a)the air is flow parallel to the main center line

**b)pressure drop is uniform\***

c)velocity will be equal at each place

15.TO REDUCE TAKE OFF RUNWAY RANGE AIRCRAFT FLY

a)along the wind

**b)against the wind\***

c)cross the wind

16.AT HIGH SPEED THE INDUCED DRAG

**a)less than 10% of total drag\***

b)less than 25% of total drag

c)more than 25% of total drag

17.AILERON PROVIDE WHICH CONTROL

1.longitudinal

**b)roll\***

c)pitch

18.AT HEIGHT IN STEADY FLIGHT

a)height is constant

b)velocity constant

**c)height and velocity constant in fixed direction\***

19.LONGITUDINAL STABILITY IS AFFECTED BY

a)center of pressure position change

**b)pitching movement along the fuselage\***

c)vertical stabilizer

20.WHICH DOES NOT DEPEND ON THE DENSITY OF AIR FOR ITS OPERATION

**a)rocket\***

b)parachute

c)kite

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