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Special Thanks to Mr. Pravin J Hande for sharing this document with us.

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***

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/m³***
- b) 1.025 kg/m³
- c) 1.205 kg/m³

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

c)both

14. IN STREAMLINE, 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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