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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*

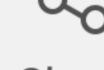
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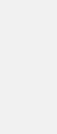






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6.IF AN AIRCRAFT BANK TURN, THE ANGLE OF ATTACK IS INDEPENDENT FROM

a)lift

b)drag

c)weight*

7.DENSITY OF AIR AT SEA LEVEL

a)1.225kg/m^3*

b)1.025kg/m³

c)1.205kg/m³

8.THE LAPS RATE IN THE STRATOSPHERE REGION

A)6.5 k/feet

b)0 k/feet*

c)5 k/feet

9.THE AMMOUNT OF AIR IN THE ATMOSPHERE APPLY-----AT THE TOP OF

SURFACE

a)force

b)pressure*

c)weight

10.DENSITY OF AIR

a)weight per unite volume

b)mass per unite volume*

c)mass per unite 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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c)hoth

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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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