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Module 08 DGCA Question Paper – July 2017 Batch 2nd

- 1) Density is defined
 - a) Weight per unit volume.
 - b) **Mass per unit volume.**
 - c) Both (a) and (b)
- 2) According to ISA at sea level temperature, pressure, and density is
 - a) 273°C; 1.1013 mbar ; 1.225 kg/m²
 - b) 273 °C ; 101.3 N/m² ; 1.225 kg/m²
 - c) **273°C ; 1.013× (10)⁵ N/m² ; 1.225 kg/m³**
- 3) Rudder gives which stability.....
 - a) **Directional stability**
 - b) Lateral stability
 - c) Longitudinal stability
- 4) MTCS- about stability..
 - a) **Stability characteristics about all axis are different**
 - b) Stability around lateral axis is different from stability around roll and yaw axis
 - c) Stability around all axis are same
- 5) When engine failure occurs and lift is forward of the weight then
 - a) **Aircraft tends to stall.**
 - b) It gives position of gliding
 - c) Slightly reduces straight and level flight .
- 6) During turn the outer wing offers more
 - a) Drag

- b) **Lift**
c) Bank
- 7) Higher weight in gliding flight is not affected not by.....
a) Stalling angle and range are reduced
b) Stalling angle and speed are reduced
c) Speed and range are reduced
- 8) If induced drag is reduced (minimum)
a) Span must be remains same
b) **Aspect ratio must be higher**
c) Span must be reduced
- 9) Sea level temperature.....
a) **288 Kelvin**
b) 273 Kelvin
c) 173 Kelvin.
- 10) If Aspect ratio is higher then induced drag is...
a) More than 40%
b) More than 75%
c) Infinite
- 11) MTCS - Higher Reynold Number.
a) Supersonic – turbojet engine
b) Subsonic –aircrafts
c) None of the above
- 12) During flat turn.....
a) Roll only
b) **Yaw only**
c) Both roll and Yaw
- 13) On Delta wing aircraft lift
a) **Increases with increase in angle of attack**
b) Decreases with increase in angle of attack
c) Neither (a) and (b)
- 14) Which of the following operation is not depends on density
a) **Rocket**
b) Parachutist

- c) Kite
- 15) Longitudinal stability is highly affected due to
- a) Movement of tail plane
 - b) **Movement of centre of gravity**
 - c) Movement of centre of pressure
- 16) Which of the following gives stall warning to pilot.....
- a) **Stick shaker**
 - b) Stick pusher
 - c) Sensor
- 17) Below which layer sudden decrease in temperature takes place
- a) **Troposphere**
 - b) Stratosphere
 - c) Tropopause
- 18) During turn stalling angle
- a) Increases
 - b) Decreases
 - c) **Remains same**
- 19) Coefficient of viscosity is defined as
- a) Ratio of velocity to drag
 - b) **Ratio of stress velocity to velocity gradients**
 - c) Ratio of viscosity to the friction
- 20) In the case of aircraft nose drop thrust line is placed and drag line is
- a) **High ; Low**
 - b) Low ; High
 - c) High ; High
 - d) Low ; low



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