



- Q.5 What is camber?
- The distance between chord and mean line
  - Difference between area of upper and lower surface.
  - Span divided by Chord
  - None of the above
- Q.6 What is flight control system?
- Autonomous flight system
  - Air traffic control system
  - Engine throttle control
  - System to move the control surfaces
- Q.7 Induced drag is increases if?
- Lift is increased
  - Lift is decreased
  - Span is increased
  - None of the above
- Q.8 What is a chord?
- Distance between leading edge and chord
  - Distance between chord and chamber
  - Distance between leading edge and trailing edge
  - Distance between trailing edge and chord
- Q.9 What is bleed air?
- The air around the tail
  - Leaking air of the engine
  - Air taken from compressor
  - None of the above
- Q.10 Which engine has the highest efficiency?
- Turbo Jet Engine
  - Turbo Fan Engine
  - Rocket Engine
  - Turbo Shaft Engine

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name two secondary control surfaces?
- Q.12 What is aerodynamic force?
- Q.13 Can we use Ramjet Engine for takeoff?
- Q.14 What is vertical speed of aircraft?
- Q.15 What is critical Mach number?
- Q.16 Which drag is called lift dependent drag?
- Q.17 What is voltage of electric system of an airplane?
- Q.18 What is the purpose of de-icing system?
- Q.19 What is DGCA?
- Q.20 Describe 23012 NACA airfoil.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss push pull rod system?
- Q.22 State the aviation status before 20<sup>th</sup> century.
- Q.23 What are the primary movements of an aircraft?
- Q.24 Discuss the purpose of swept back wings.
- Q.25 Draw a typical stress strain diagram.
- Q.26 What are the basic instruments related to avionics?
- Q.27 How does rain protection system work?