

Basics of Drones

Question

- 1) Explain briefly the forces acting on the aircraft with the help of neat diagram .
- 2) Define the following terms
 - a) Range
 - b) Endurance
 - c) Altitude
 - d) Hover
 - e) Center of lift
 - f) Center of gravity
 - g) Angle of Attack
 - h) center of lift
 - i) Maneuver
 - j) Surveillance
 - k) Reconnaissance
- 3) Describe briefly about the reference axes of an Aircraft and its motion about those axes with the help of Illustration.
- 4) Provide an Overview of UAV system with the help of illustration.
- 5) Describe briefly about the parts of fixed wing UAV with the help of labeled diagram.
- 6) Describe briefly about the parts of Single rotor aircraft with the help of labeled diagram.
- 7) Describe briefly about the parts of Quadcopter with the help of labeled diagram.
- 8) Summarize the History of UAV by considering a important events that led to the evolution of UAV.
- 9) Classify the UAVs base on its airframe and explain it briefly with the help of illustration.
- 10) Classify and explain briefly about the following UAVs with the help of illustration

a) UAVs based on size

b) UAVs based on Range and Endurance

11) List the application of UAVs with an example for each.

12) India is highly potential in the field of Developing indigenous Drones, Justify this statement providing an suitable example regarding its achievement.

13) Suggest your ideas for making India successful in developing Indigenous Drones.