

Question (c) : If you are allowed to make changes in the design of regular drone what will you change and justify your answer. Also attach the references for the suggested changes in the design.

Answer :

Design drones that can change their shape mid-flight to adapt to different environments and tasks.

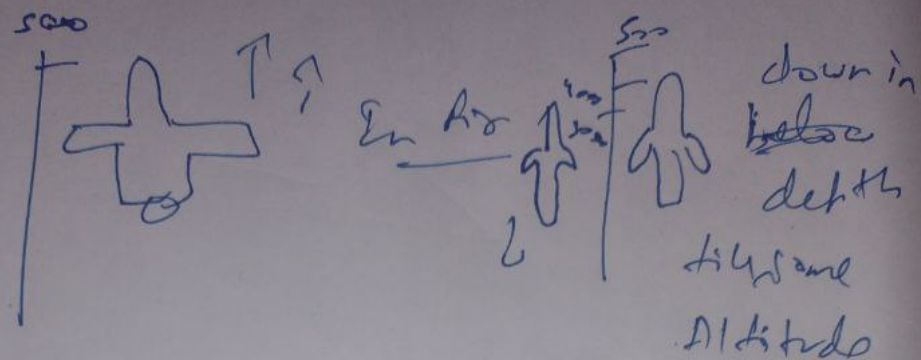
Adaptive Aerodynamics: changing its adaption to the environment, like when it's too windy we have to reduce its surface area to avoid any repulsion or air resistance, and also can change its structure in air by making a "Folding mechanism in it"

Like how the birds do, when too windy they fold their wings and fly with the air flow, by stream line or compressing their body  
can add some motors to do that  
and also the flexible structure for that

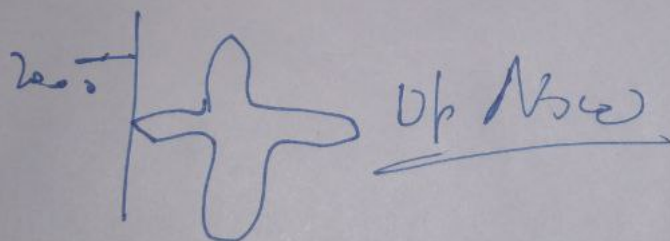
Better to search in the windy or unfavourable climate area if it's with the wind, otherwise has to drop it out and restart again

Can make it going like a missile first and finding with camera and then if reach certain altitude, then de transform it to original shape to increase surface area, and with that will go to further sky.

Or also canuse the formation of them like in the jets , to tackle the nevironment , like tht fighter jets do in the indian army or any other air force do .



After reaching altitude threshold altitude, get to its state, its called free flying technique.



so from, Any formation like fighter jets.

