Assignment 02

The due date for submitting this assignment has passed. Due on 2019-08-21, 23:59 IST. As per our records you have not submitted this assignment.

1) For a conventional aircraft the sign of \( C_{D_\alpha} \) is?  
   - -ve
   - +ve
   - Both ‘–ve’ and ‘+ve’ are possible
   - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - +ve

2) For a conventional aircraft the sign of \( C_{L_\alpha} \) is? (Note: Aircraft can go beyond the stall angle)  
   - -ve
   - +ve
   - Both ‘–ve’ and ‘+ve’ are possible
   - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Both ‘–ve’ and ‘+ve’ are possible

3) The two aircraft is geometrically similar but first one is bigger one in size and mass in compare with second one, which one will be more stable.  
   - First one
   - Second one
1) For both the stability will be same
   - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   First one

2) 4) At neutral point?
    - \( C_{ma} = +ve \)
    - \( C_{ma} = -ve \)
    - \( C_{ma} = 0 \)
    - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   \( C_{ma} = 0 \)

3) 5) Which placement of wing gives more lateral stability of aircraft?
    - High wing
    - Low wing
    - Mid wing
    - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   High wing

4) 6) Which placement of wing gives minimum drag?
    - High wing
    - Low wing
    - Mid wing
    - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Mid wing

5) 7) During a flight due to passenger's movement the CG of airplane moves toward neutral point,
    due to this the elevator angle required to trim the airplane will?
    - Increases
    - Decreases
    - Remain same
    - Cannot say
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Decreases

6) 8) A high wing aircraft will require more dihedral than a low wing aircraft
    - 1 point
9) In an aircraft without changing any other dimensions the tail setting angle is increased by 6 degrees. Due to this change the longitudinal stability of aircraft will

- Increases
- Decreases
- Remain same
- Cannot say

No, the answer is incorrect.
Score: 0
Accepted Answers: Remain same

10) Longitudinal stability of an airplane depends upon?

- Tail arm
- Control surface area
- Type of Winglets used in wing tip
- None of these

No, the answer is incorrect.
Score: 0
Accepted Answers: Tail arm