Assignment 08

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-25, 23:59 IST.

1) Complete six-degree-of-freedom (6-DOF) represented by?
   
   - 12- first order, ordinary differential equation
   - 6- first order, ordinary differential equation
   - 6- second order, ordinary differential equation
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - 12- first order, ordinary differential equation

2) The orientation and position of the aircraft were defined in?
   
   - Inertial frame
   - Nadir frame
   - Accelerated frame
   - Non-inertial frame

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Inertial frame

3) In Complete six-degree-of-freedom (6-DOF) aircraft has?
   
   - 3- moment and 3-force equation
   - 2- moment and 4-force equation
   - 0- moment and 5-force equation
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - 3- moment and 3-force equation

4) If aircraft is not pitching about the centre of gravity (q = 0deg/s) then the change in
angle of attack at tail (Δα) in degree will be?

   - Δα_{out} = 0
   - Δα_{out} > 0
   - Δα_{out} < 0
   - Δα_{out} = 1

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Δα_{out} = 0

5) For a small angle (φ = 0°, ϑ = 0° and ψ = 0°), the following relation holds?

   - φ = 0, 0 = 0 and ψ = 0
   - φ = p, 0 = 0 and ψ = r
   - φ = p, 0 = q and ψ = r
   - φ = p, 0 = q and ψ = r

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - φ = p, 0 = q and ψ = r