

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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- 8 a. Describe Lateral Static stability and explain the main contribution of pitching moment with a neat sketch. (10 Marks)
 - b. Briefly describe the methods of Aileron Elevator and Rudder Sizing with relevant sketches and equations. (10 Marks)

Module-5

- 9 Describe the following with relevant sketches and suitable equations :
 - a. Flight control system.
 - b. Landing gear arrangements.

(10 Marks) (10 Marks)

(10 Marks)

(10 Marks)

OR

10 Describe the following with relevant sketches and suitable equations :

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a. Hydraulic and Pneumatic system.

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b. Cabin Pressurization and Air Conditioning.