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IV SEMESTER B.TECH. (AERONAUTICAL ENGINEERING) END SEMESTER EXAMINATIONS, APRIL 2018

SUB: INTRODUCTION TO AEROSPACE ENGINEERING [AAE 3281]

REVISED CREDIT SYSTEM (30/04/2018)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- * Missing data may be suitable assumed.

1A.	How the aircraft is moving forward? Also explain with suitable examples the different parts of aircraft and rocket.	(4)					
1B.	Discuss the role, mission and standards of IATA and ICAO trade bodies.	(6)					
2A.	Explain with neat diagrams the differences between air breathing engines and non-air breathing engines. Give suitable examples.	(4)					
2B.	Explain the different types of aircraft maintenance with neat flow chart diagram.	(6)					
3A. 3B.	Describe the role of low wing and high wing concept in aircraft. Explain the construction, working, advantages and limitations of solid, liquid and Hybrid propellant rockets.						
4A. 4B.	With neat diagrams explain the different types of fuselage structures. Explain the different types of fluid flows which are used to describe the aircraft aerodynamics.	(4) (6)					
5A. 5B.	Discuss the aircraft landing gear design considerations. Explain the design based engines with neat line diagrams	(4) (6)					

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