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MANIPAL INSTITUTE OF TECHNOLOGY
 Manipal University, Manipal – 576 104



DEPARTMENT OF AERONAUTICAL AND AUTOMOBILE ENGG
VI SEM. B.Tech (AERONAUTICAL) DEGREE END SEMESTER EXAMINATIONS
JUNE/JULY 2016
SUBJECT: AIRCRAFT AND SPACE TRANSPORTATION SYSTEM (AAE-348)
REVISED CREDIT SYSTEM

Time: 3 Hours.

Max. Marks: 50

Instructions to Candidate:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data, if any, may be suitably assumed.
- ❖ **Draw all the diagrams with pencil only**

- 1 A) Classify the types of aircraft jet engines. (4)
- 1 B) What are primary and secondary control surfaces of the aircraft? Explain (6)

- 2 A) Describe the role of line department in airport administration. (4)
- 2 B) Explain the various subsystems of airport management. (6)

- 3 A) Describe the aircraft window requirements. (4)
- 3 B) With the neat diagrams explain the concept of aircraft fuselage shapes. (6)

- 4 A) Explain with the help of neat diagram components of liquid propellant rocket. (4)
- 4 B) Explain the working principle of solid, liquid and nuclear propellant rockets. (6)

- 5 A) Write a short notes on different methods involved in aircraft system engineering. (4)
- 5 B) Explain the different phases involved in aircraft design. (6)

- 6 A) Explain the different types of fuels used in aerospace industry. (4)
- 6 B) Explain the major advantages and disadvantages of 'Intelligent Transportation system'. (6)

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