

Roll No.....

Total No. of Printed Pages: [01]

Total No. of Questions: [09]

**B.Sc. (Hons) AME (Semester –5<sup>th</sup>)**

**AIRCRAFT SYSTEM-1**

**Subject Code: BAME3-533**

**Paper ID: 20131120**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a) What do you understand by “gust lock” in aircraft?
- b) Write a short note on rigging of flight controls.
- c) What are the three types of hydraulic fluids used in aircraft?
- d) What is the use of filters in hydraulic system?
- e) Define induced drag.
- f) What is the purpose of antiskid system?
- g) What do you mean by “lift augment” devices?
- h) Why a vent is provided on fuel tank?
- i) What is the purpose of APU?
- j) What do you understand by wet wing in aircraft?

**Section – B**

**(5 marks each)**

- Q2. What is the difference between primary flight controls and secondary flight controls?
- Q3. What is the difference between anti-icing and de-icing?
- Q4. Write the inspections to be carried out during retraction check of landing gear.
- Q5. What is longitudinal stability?
- Q6. Explain outflow valve in pressurization system.

**Section – C**

**(10 marks each)**

- Q7. Write the procedure of bleeding of shock strut.
- Q8. What are the precautions to be observed while refueling the aircraft?
- Q9. Draw a neat and clean diagram of hydraulic reservoir and name its parts.