Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

B.Sc. (Hons) AME (Semester –5th)
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.