

Roll Number:

Total No. of pages: [01]

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B.Sc. Hons. (Aircraft Maintenance Engineering) (Semester-3rd)

AIRCRAFT STRUCTURE

SUBJECT CODE: BAME3-318

Paper ID: [20131112]

Time: 03 Hours

Maximum Marks: 60

Instructions for Candidates: -

- 1. Section A is Compulsory.**
- 2. Attempt any FOUR questions from Section B.**
- 3. Attempt any TWO questions from Section C.**

Section- A

(2 marks each)

Q1 Attempt the following:

- a) What are the stringers in an aircraft?
- b) Define Fail Safe structure in an aircraft.
- c) What are the four forces acting on an aircraft in straight and level flight?
- d) Why Aircraft is bonded?
- e) What do you understand by Bulkheads?
- f) Why surface cleaning of aircraft is important?
- g) What is other the name of Undercarriage?
- h) What do you understand by mass balancing of aircraft control surfaces?
- i) Write a short note on Pylon?
- j) Firewalls are made of what material?

Section- B

(5 marks each)

- Q2 Name the Primary and Secondary structural members of an aircraft.
- Q3 Write a short note on aircraft station or zone identification system.
- Q4 What is the difference between solid shank rivet and blind rivets?
- Q5 Why symmetry check is required after major structural repair of an aircraft?
- Q6 Write a short note on high lift devices.

Section- C

(10 marks each)

- Q7 What are the different types of Landing gears? Write in detail.
- Q8 What are the different types of Fuselage constructions? Define any one.
- Q9 What should be checked after aircraft met with lightning strike?