

**534****April 2018**

Time – Three hours  
(Maximum Marks: 75)

*[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.  
Answer any FOUR questions from the remaining in each PART - A  
and PART - B*

*(2) Answer division (a) or division (b) of each question in PART - C.*

*(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and  
10 marks in PART – C. ]*

PART – A

1. Define: rudder.
2. Define: reference lines.
3. What is the use of aileron?
4. What is meant by flaps?
5. Define: bolting.
6. What is meant by fuselage?
7. Define flight balancing.
8. What is the importance of spoiler?

PART – B

9. List out the aircraft systems.
10. Write the difference between horizontal and vertical stabilizers.
11. State primary control surfaces.
12. State H.T.
13. What is the use of riveting?
14. Define ATA.
15. List out the safety devices.
16. What is meant by control surface attachment?

[Turn over.....

PART – C

17. (a) Discuss about the major aircraft components in detail.  
(Or)  
(b) Sketch the conventional aircraft and explain aircraft systems.
18. (a) Discuss about the primary control surfaces.  
(Or)  
(b) Briefly explain the various types of fuselage.
19. (a) Explain about the wing construction in detail.  
(Or)  
(b) Explain bonding methods of surface protection and surface cleaning.
20. (a) Explain the importance of under carriage attachments.  
(Or)  
(b) Explain in detail about the doors and emergency steps.
21. (a) Briefly explain the importance of stabilizers in aircrafts.  
(Or)  
(b) Discuss about the aircraft balancing.

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