

**April 2019**

*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. What is an aircraft?
2. Draw an aircraft roughly and mark the main components.
3. What are ailerons?
4. What is the use of anodizing?
5. What is bolting?
6. What is the difference between window and window screen?
7. What is mass balancing?
8. What are the uses of nacelles?

PART - B

9. What is the purpose of riveting?
10. What are the types of fuselage?
11. What are the primary control surfaces?
12. Explain in short on painting.
13. Explain briefly about the function of zone identification systems.
14. How to install seats?
15. Difference between doors and emergency exits in terms of installation.
16. Explain in short about pylons.

[Turn over....]

PART - C

17. (a) Explain with brief notes on all main components of aircraft.  
(Or)  
(b) Explain in detail on any three aircraft systems.
18. (a) Explain with diagram, any two types of fuselage.  
(Or)  
(b) Explain in detail on secondary control surfaces of an aircraft.
19. (a) Explain in detail about the techniques of structural assembly.  
(Or)  
(b) (i) Explain emperrage.  
(ii) Write notes on chromatin and anodizing.
20. (a) Explain the construction of ATA 56.  
(Or)  
(b) Explain the construction and working of doors and emergency exits.
21. (a) Explain in detail on stablizers and their working with diagram.  
(Or)  
(b) (i) What are the uses of nacelle.  
(ii) Write notes on construction of (ATA 54) nacelle.

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