

**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 the function of under carriage?
2. What are the types of landing gear?
3. List out the primary control surfaces.
4. What is balancing of control surfaces?
5. Where do you use flexible pipe lines in an aircraft?
6. What is the color code for fuel and lubrication?
7. Define weighing of aircraft.
8. What is aircraft payload?

PART - B

9. List out the types of under carriages.
10. What are undercarriage parts?
11. List out the secondary control surfaces.
12. Why balancing of control surfaces is required?
13. Define flaring process.
14. What is the color code for pneumatic and fire protection?
15. Explain control surface rigging.
16. When you do aircraft levelling?

[Turn over.....

PART - C

17. (a) Explain the types of undercarriage with neat sketch.  
(Or)  
(b) Explain the method of attachment of aircraft.
18. (a) Explain the methods of balancing of control surfaces.  
(Or)  
(b) Draw and explain the layout of primary control surface.
19. (a) Describe the flaring process in pipelines.  
(Or)  
(b) Describe short notes on pipe cutting and installation of pipe lines.
20. (a) Describe weighing procedure of an aircraft.  
(Or)  
(b) Explain the types of loads acting on an aircraft and its characteristics.
21. (a) Write down the procedure of symmetry check of an aircraft.  
(Or)  
(b) Explain in detail about rigging of control surface with sketches.
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