

PART B (10 x 2 = 20 Marks)
(Answers Not more than 40 words)

11. What do you mean by “Arc Wandering”?
12. Differentiate between soldering and brazing.
13. What are the three major classification of sheet metal damage?
14. Mention any two types of clear plastics and its specific characteristics
15. What is Autoclave? List down its applications.
16. Define Datum of an aircraft?
17. List down any two helicopter flight controls with its function.
18. What is Freon-12? Give its composition.
19. Name the few precautions to be observed while handling hazardous materials.
20. Write down important maintenance procedures of Rain removal system.

PART C (5 x 14 = 70 Marks)
(Answers Not more than 400 words)

Q.No. 21 is Compulsory

21. Write in detail about the following:
 - (i) Control surface rigging (7)
 - (ii) Forming of Plastics (7)

22. (a) Write in detail about types, function of welding Jigs and Fixtures with appropriate sketch.

(OR)

 - (b) (i) Write short notes on trimming and drilling of composites. (7)
 - (ii) Explain in detail about autoclaves and its operations (7)

23. (a) (i) What are the general design guidelines of a rivet repair? (7)
 - (ii) Write short notes on Non Destructive Testing (NDT) (7)

(OR)

 - (b) List and explain in detail about the methods available for tracking and balancing of Helicopter main rotor.

24. (a) Explain in detail about maintenance and overhaul practices followed for aircraft hydraulic system with necessary sketch.

(OR)

 - (b) Explain the trouble shooting and maintenance practices related to aircraft cabin pressurization system.

25. (a) Write short notes on:
 - (i) Hazardous material storage and handling (7)
 - (ii) Ice protection system inspection (7)

(OR)

 - (b) Explain in detail about the different format of troubleshooting charts available in aviation industry.
