PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. summer 2021 – 2022 Examination

Semester: 8	**Date: 28/03/2022**
Subject Code: 203101451/03101451	**Time: 10:30 am to 01:00 pm**
Subject Name: Aircraft Maintenance	**Total Marks: 60**

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (Fill in the blanks, one word answer, MCQ-not more than Five in case of MCQ) (All are compulsory) (Each of one mark)   **(15)**
1. Which are two Generally Recommended Personal Safety Equipments?
2. What is a Corrosive material?
3. Which are the frequently found corrosives in Aviation?
4. What is flash point?
5. The_____has established reporting procedures for accidental release of hazardous materials
6. Full form of FARs is_____
7. _____are those aircraft systems used to make the interior environment of the aircraft comfortable and/or habitable for human beings.
8. What fuel is used in a combustion heater?
9. There are two general classifications of clear plastics used in aircraft:_____and_____
10. What is the purpose of heat gun?
11. Define Aircraft rigging.
12. What is DGCA?
13. Type of steel commonly used for tubular steel structures in aircraft is_____
14. NDT is____
15. What is a tolerance?

Q.2 Answer the following questions. (Attempt any three)   **(15)**
   A) Write a brief note on reactive agents.
   B) List some of the flammable materials found in the aviation industry.
   C) Explain the types of paint system.
   D) Explain the purpose of the filler rod in welding.

Q.3 A) Draw and explain: Environmental system block diagram.   **(07)**
   B) Explain in detail the techniques that can be used to remove paint?   **(08)**
                                OR
   B) Explain NDT and types of NDT in detail.   **(08)**

Q.4 A) Describe a method that may be use in special welding   **(07)**
                                OR
   A) Discuss in brief control rigging and ground running checks   **(07)**
   B) Explain the Standard inspection techniques and procedure in detail   **(08)**