

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

**Semester: 8****Subject Code: 203101451/03101451****Subject Name: Aircraft Maintenance****Date: 28/03/2022****Time: 10:30 am to 01:00 pm****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)**
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- B) Explain the Standard inspection techniques and procedure in detail (08)**