

**EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, JANUARY 2017**  
**(2013 SCHEME)**

**13.801 AIRCRAFT MAINTENANCE AND REPAIR(S)**

Time: 3 Hours

Max.Marks:100

*N.B: Answer all questions from PART- A and any one question from each module in PART-B.*

**PART – A**

1. Briefly explain about the types of maintenance?
2. Briefly explain about the basic steps involved in overhauling?
3. (i)How are aircraft piston engine classified?  
(ii)What is meant by trouble shooting?
4. Write short about air-conditioning and pressurization systems in aircraft?
5. Briefly explain about Six Sigma?

**(5\*4=20)**

**PART – B**

**MODULE 01**

- 6.(a) Explain the types of aircraft inspection and its procedures? **(12)**  
( b) Explain about the aircraft manuals **(8)**

**(Or)**

7. (a) Explain about aircraft repair and modifications **(10)**  
(b) Write short notes on(i) Service letter and service bulletin **(5)**  
(ii)Advisory Circular **(5)**

**MODULE 02**

- 8.(a)Explain about aircraft engine installation checks. **(10)**  
(b)Write notes on bleeding and performance cheks in engines **(10)**

**(Or)**

- 9.(a)Explain about aircraft on condition maintenance **(12)**  
(b)Explain the term engine preservation and depreservation **(8)**

**MODULE 03**

- 10.(a) Explain about Ice and rain protection system and maintenance **(12)**  
(b)Explain about the fire protection system and maintenance **(8)**

**(Or)**

- 11.(a) Explain about control surface rigging **(10)**  
(b)Explain the inspection of aircraft braking and antiskid systems **(10)**

**MODULE 04**

- 12 (a) Explain about Fault Tree Analysis (10)  
(b) Explain about quality control circle (10)

**(Or)**

- 13.(a) Explain briefly about aviation safety regulation (20)