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**B.TECH. IN AEROSPACE ENGINEERING
(BTAE)**

Term-End Examination

June, 2012

**BAS-018 : AIRCRAFT SAFETY AND
MAINTENANCE ENGINEERING**

Time : 3 hours

Maximum Marks : 70

Note : Answer any ten questions. All questions carry equal marks.

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1. What is the purpose of a maintenance check list ? 7
What are the precautions to be observed while undertaking jacking of an aircraft ?
 2. Describe type certification data sheets. What are 7
the different types of fluid lines used in aircraft and their means of identification ?
 3. Briefly explain different types of ground support 7
units. What are the intake and exhaust hazard areas ?
 4. (a) List the different publications used in 3+4
aircraft . As per the CAR
(b) Explain in detail the maintenance of air conditioning and pressurisation system of an aircraft.

5. Explain different aspects involved in ensuring aircraft maintenance safety. 7
6. Explain the starting procedure of an aircraft piston engine. 7
7. Describe the method of statistical modelling used in Statistical Process Control (SPC) 7
8. Define system safety. What are the components of a System Safety Programme Plan ? 7
9. What is towing of an aircraft ? Explain the towing procedure. 7
10. How does cracking and corrosion occur on aircraft components ? 7
11. What are the guidelines enumerated in Air Safety Circulars to ensure Apron discipline ? 7
12. What are the Air Safety Instructions to avoid a condition of overloading of aircraft ? When is dual control deactivation resorted to in small aircraft and helicopters. 7
