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BAS-018

**B. TECH. AEROSPACE ENGINEERING
(BTAE)****Term-End Examination****June, 2019****BAS-018 : AIRCRAFT SAFETY AND
MAINTENANCE ENGINEERING***Time : 3 Hours**Maximum Marks : 70*

Note : Attempt any seven questions. All questions carry equal marks. Standard terms and notations have their usual meaning.

1. Explain the steps of Statistical Process Control (SPC) in aircraft health monitoring. 10
2. (a) Explain rigging of an aircraft and mention the precautions to be taken while parking of an aircraft. 5
(b) Enlist the benefits of condition based maintenance system. 5
3. Derive and compare the reliability of system in series and parallel for constant rate of failure. 10

4. Discuss the life-cycle costing concept and its benefits. 10
5. (a) Enlist the stages in a system life cycle and explain the basis on which an aircraft component life is decided. 5
- (b) Describe the purpose of a maintenance check list. 5
6. Briefly explain the different types of ground support units. What are the intake and exhaust hazard areas ? 10
7. What is towing of an aircraft ? Explain the steps involved in towing procedure. 10
8. Write short notes on the following : 10
 - (a) Service check
 - (b) Major service