

**B.Tech. AEROSPACE ENGINEERING
(BTAE)**

Term-End Examination

00423

December, 2016

**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. (a) What is aircraft maintenance ? Enumerate its objectives. 5
(b) Enlist the different types of condition monitoring. 5
2. (a) Explain the basic safety procedures that are followed in aircraft maintenance. 5
(b) Differentiate between Ramp check and Service check. 5
3. Explain any five types of aircraft safety circulars prescribed by DGCA. 10

4. Discuss the human factors involved in aircraft maintenance. Enumerate the errors that can prove to be fatal. 10

 5. (a) Explain the terms “taxing” and “towing” for an aircraft. 5
(b) Discuss “dispatch reliability” in relation to aircraft maintenance. 5

 6. Name and explain the system that checks the status of critical components in an aircraft. 10

 7. Elaborate the inventory management for spare parts in aircraft maintenance industry. 10

 8. What is NDT ? Explain any two types of NDT techniques used in aircraft industry. 10

 9. Write short notes on the following : 10
 - (a) Standardization
 - (b) Reliability
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