B.TECH. IN AEROSPACE ENGINEERING (BTAE)

00139

Term-End Examination

December, 2011

BAS-018: AIRCRAFT SAFETY AND MAINTENANCE ENGINEERING

Time	: 3 hours	Maximum Marks : 70
Note	: Answer any ten questions. Al marks.	l questions carry equal
1.	Define special inspection of airc. What are the precautions to loading compressed air?	•
2.	Briefly describe an Airworthines describe the different types of p in aircraft maintenance as per th	ublications used
3.	Why is environmental cleanling aviation? How is it maintained	-
4.	What is rigging of an aircraft precautions to be taken wh aircraft?	
5.	What are aircraft logs? What are for issuance of Airworthiness ce	

- Describe the form steps of Statistical ProcessControl (SPC) in aircraft health monitoring.
- 7. What are the various aerospace sensors used for data acquisition for the purpose of monitoring aircraft structural health? Explain the functioning of any two.
- 8. What is Non Destructive Testing (NDT)? What 7 kinds of NDT techniques are used to ensure safety of an airplane?
- 9. What are the responsibilities laid out in Air Safety 7 Circulars for ensuring correct refuelling? What are the aircraft operator's and fuel vendor's responsibilities in this regard?
- **10.** What is aircraft proximity? How has aircraft proximity been classified in Air Safety Circular?
- **11.** What are the stages in a system life cycle? On what basis is aircraft component life decided?
- 12. Explain the starting procedure of an aircraft jet 7 engine.