No. of Printed Pages: 2

BAS-011

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

December, 2014

00125

BAS-011 : AIRCRAFT SYSTEMS AND AIRWORTHINESS REQUIREMENTS

Time: 3 hours		Maximum Marks : 70		
Note: Answer any ten questions. All questions carry equa- marks.				
1.	How do we maintain hy aircraft?	draulic system in the	7	
2.	Explain the various congears employed in majorit	•	7	
3.	Differentiate between a hydraulic systems.	ircraft pneumatic and	7	
4.	Differentiate between ca air-conditioning system.	bin pressurization and	7	
5.	Write about the various which are being used in a	•	7	
6.	Explain the principles of airplane.	voltage regulation in an	7	
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7 .	Describe the various quality check tests to be carried out on aviation fuel.	7	
8.	Explain the Pitot-static air data sensor with the help of a neat sketch.		
9.	Discuss the various components of a landing gear system.		
10.	Describe briefly the basic fuel system components of a jet engine.	7	
11.	What are the requirements for issuance of type certificate of an aircraft and its components as per Series 'F' of CAR Section 2?		
12.	Write down the conditions for de-registration of an aircraft.	7	