No. of Printed Pages: 2

BAS-018

Massimum Marks . 70

P.T.O.

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

00838

Time . 9 hours

BAS-018

December, 2014

BAS-018 : AIRCRAFT SAFETY AND MAINTENANCE ENGINEERING

Note: Answer any seven questions.					
	(b)	What is towing of an aircraft? Explain.	5		
2.		scribe the four steps of Statistical Process atrol (SPC) in aircraft health monitoring.	10		
3.	Explain the starting procedure of an aircraft jet engine.				
4.	(a)	How does cracking and corrosion occur on aircraft components?	5		
	(b)	What are the air safety instructions to avoid the condition of overloading of aircraft?	5		

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5.	(a)	Explain in detail the maintenance of aircraft.	5
	(b)	What is the purpose of a maintenance check-list?	
6.	(a)	What are the Circular Aprons?	5
	(b)	What are the responsibilities laid out in air safety circulars for ensuring correct refuelling? What are the aircraft operator's and fuel vendor's responsibilities in this regard?	5
7.	(a)	Why is environmental cleanliness required in aviation ? How is it maintained?	4
	(b)	Briefly describe an Airworthiness directive. Also describe the different types of publications used in aircraft maintenance as per the CAR.	6
8.	inde The 0.00	ume that a system is composed of five ependent and identical subsystems in series. constant failure rate of each subsystem is 025 failures per hour. Calculate the reliability	10
		mean time to failure for 50 hrs. of mission.	10
9.		ive and compare the reliability of system in es and parallel for constant rate of failure.	10