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BAS-019

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

June, 2015

00401

BAS-019: AIRCRAFT INSTRUMENTS

Tin	me: 3 hours Maximum	Maximum Marks: 70		
Note: Attempt any seven questions. All questions carrequal marks.			rry	
1.	Explain the principle of operation of altimeter, used for measuring altitude aircraft, with a neat sketch.		10	
2.	List out the advantages of Fly-By-Wire cover the conventional Mechanical Flight cosystem.		10	
3.	Define the term "Mach number" and describe how it is indicated by measurement of pitot and static pressures in a Machmeter.			
4.	Explain the construction and working of a Bourdon tube used for pressure measurement.			
5.	Write short notes on the following:	5+5=	:10	
	(a) Cylinder Head Temperature (CHT)			
	(b) Engine Pressure Ratio (EPR)			

6.	Def	ine the following terms :	5×2=	10
	(a)	Static pressure		
	(b)	Vertical speed of aircraft	·	
	(c)	Altitude of aircraft		
	(d)	Dynamic pressure		
	(e)	Tail wind		
7.	-	plain the working and construction of elerometer, with a neat sketch.		10
8.	indi	t down the various kinds of temperaticators used in an aircraft and explain of them.	any	10
9.		at is a "Tachometer"? Explain, in detail, type of tachometer.	•	10