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completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.		v revealing of incidintivation, appear to evaluation take of systems.
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Eighth Semester B.E. Degree Examination, Dec.2017/Jan.2018				
		Flight Testing	ジ	
Tim	a. 3	hrs. Max. Max	rks:100	
No	te:	Answer any FIVE full questions, selecting atleast TWO questions from ea	ch part.	
		PART – A		
1	a.	What are the different types of Flight Tests carried on airplane? Explain each	of them. (10 Marks)	
	b.		(10 Marks)	
2	a.	What are the linear measurement instruments used in airplane flight testing?	Give the	
		description of them mentioning their actions and actions and actions and actions and actions are actions and actions and actions are actions as a constant actions are actions as a constant actions are actions and actions are actions as a constant actions are actions and actions are actions as a constant actions are actions as a constant actions are actions as a constant action actions are actions as a constant action actions are actions and actions are actions as a constant actions are actions as a constant actions are actions as a constant action actions are actions and actions actions are actions actions actions actions actions actions actions are actions actio	(10 Marks) (10 Marks)	
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3	a.	Delive the Devel I fight I diffinition of State	(10 Marks) (05 Marks)	
	b.	Delive the condition for maximum range to: a bigger	(05 Marks) (05 Marks)	
	c.		(10.75 1.)	
4	a.	Derive an expression for Take – off ground run. What is the relationship between radius of turn, flight velocity and load factor	(10 Marks) r during a	
	b.	steady level turn?	(10 Marks)	
		PART - B		
		(\mathcal{S})		
5	a.	Explain the Flight test method for determining the control force neutral point.	(10 Marks) (10 Marks)	
	b.	Explain the techniques used to test airplane short periods.	(10 //14/11/10)	
6	a.	What is Directional stability and how is it increased in airplane	(10 Marks)	
	b.	What is Control free lateral directional stability and explain what is rudder lock?	(10 Marks)	
7	a.	Explain Cooper - Happer pilot rating scale.	(10 Marks)	
	b.	Explain the flight test procedure to evaluate handling quality of an aircraft.	(10 Marks)	
8	a.	What are the regulation requirements for flutter test and how is freedom from flut	ter ensured	
-		in designs and during testing? What are the Air worthiness standard limitations of spin on different categories.	(IU Marks)	
	b.	What are the Air worthiness standard illitiations of spin on unicion eacego	(10 Marks)	
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