

Time: 3 hrs.

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

	ל	PART - A	
1	a.	Define purpose and scope of flight testing.	(03 Marks)
.1	b.	Explain weighing and ballasting techniques in flight test.	(07 Marks)
	c.	Define an error and explain any four error in flight test data.	(10 Marks)
2	ัล	Describe sensing and transuding techniques.	(10 Marks)
	b.	Define Radio telemetry and draw wireless telemetry system.	(10 Marks)
3	a.	Explain Level flight performance theory for Jet aircraft.	(12 Marks)
	b.	Derive an equation for rate of climb by considering acceleration factor to	
		approach method.	(08 Marks)
4	14	Explain the four primary limitations on the turning performance of an airplane.	(12 Marks)
4	b.	Explain test procedures for takeoff and landing of a aircraft in flight test.	(08 Marks)
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		PART - B	(10.7/1 )
5	a.	Draw and explain flight path stability curve in static longitudinal stability test.	(10 Marks)
	b.	Write procedure for evaluating the phugold in flight test method and data reduct	(10 Marks)
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6	a.	Explain directional stability in detail.	(10 Marks)
U	b.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(05 Marks)
	C.	Write short notes on spiral mode.	(05 Marks)
_		D 1 C 1 Ham or pilot enting goals	(12 Marks)
7	a.	Draw the Cooper – Harper pilot rating scale.  Define the three levels of flying qualities and also define pilot workload.	(08 Marks)
	b.	Define the times levels of flying quarties and also define pro-	
8	a.	Define airplane spin and its type. Also explain spin recovery parachutes.	(12 Marks)
	b.	Write short notes on :	
		i) Control reversal	(08 Marks)
		ii) Flutter.	(08 Marks)