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		Seventh Semester B.E. Degree Examination, June/July 202	24
Tim	ne. 1	Guidance, Navigation and Control B hrs. Max. Max. Max. Max. Max. Max. Max. Max	Marks: 100
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	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Write a short note on Guidance, Navigation and Control along with relevant blo	ock diagram (10 Marks
	b.	Explain the working of Pulse Doppler RADAR. Also write its applications?	(10 Marks
		OR	
2	a.	Write a note on Air data information for navigation.	(10 Marks
	b.	Explain the working of MTI along with limitation of MTI performance.	(10 Marks
2		Module-2	
3	a. b.	Explain the working of sequential lobing along with its advantage. Explain how GPS works along with its limitation.	(10 Marks (10 Marks
	U.		(10 Wark)
4	3	OR Explain the working of Monopulse Tracking.	(10 Marks
-	a. b.	Explain the working of stepdown navigation.	(10 Marks
_		Module-3	
5	a.	Write the difference between open and close loop system.	(05 Marks
	b.	Derive moment equation for controlling aerodynamics of Missile along w diagram.	(15 Marks
		diagram.	(15 Marks
		OR	
6		Draw and explain block diagram of missile autopilot.	(20 Marks
		Module-4	
7		Explain the working of proportional navigation guidance along with its block dia	agram. (20 Marks
		OR	
8	a.	Write the comparison of guidance system performance.	(10 Marks
	b.	Explain the working of Bank to turn missile guidance along with block	
		acceleration control system for BTT missile.	(10 Marks
		Module-5	
9		Draw and explain director fire control system block diagram.	(20 Marks
		OR	
10		Draw and explain Lateral flight control system block diagram.	(20 Marks
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-Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.