PRN:		Course Code :	PAS301

Second Year **M. Tech** End Semester Examination Winter 2023

Missile Guidance & Control

Day and Date: Tuesday, 28/11/2023 Max Marks: **100**

Time : 10.30 am to 1.30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Briefly explain the surface to surface and surface to air missiles.	08	2	CO1
	b)	Describe the functions of different types of missiles.	08	2	CO1
		OR			
	b)	Explain the major components of strategic missiles.	08	2	CO1
Q.2		**Attempt the following**			
	a)	Explain the guidance phases during missile flight.	08	2	CO2
	b)	Describe the different Categories of Homing Guidance	08	2	CO2
		OR			
	b)	Briefly Explain the standard terminologies in missile guidance.	08	2	CO2
Q.3		**Attempt any two from the following**			
	a)	Describe the Effect of lethal radius.	08	2	CO3
	b)	Explain the collision condition and the collision triangle.	08	2	CO3
	c)	What do you understand by Asymptotic behavior of $V\theta$ and VR.	08	2	CO3
Q.4		**Attempt any two from the following**			
	a)	Explain the Conceptual Classical Guidance Laws.	08	2	CO4
	b)	Describe the Implementation of LOS Guidance	08	2	CO4
	c)	Briefly explain the Deviated Pursuit Guidance Law	08	2	CO4
Q.5		**Attempt any Two of the following**			
	a)	What is Pure Proportional Navigation (PPN)	09	2	CO5
	b)	Explain the True Proportional Navigation(TPN)	09	2	CO5
	c)	Describe about Original TPN with Non-Maneuvering Target.	09	2	CO5
Q.6		**Attempt any Two of the following**			
	a)	Briefly explain the PN Based Impact Angle Constrained Guidance.	09	2	CO5
	b)	Explain the Composite Guidance law.	09	2	CO5
	c)	Describe Impact Angles Against a Moving Target with Proportional Navigation	09	2	CO5

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