B.Tech. AEROSPACE ENGINEERING (BTAE)

□□□43 Term-End Examination December, 2018

Time : 3 hours		Maximum Marks : 70
Not		questions. All questions carry of scientific calculator is
1.	Explain the operation of motor with a neat sketch	
2.	What are the roles of procket propulsion? Expl	- ·
3.	Discuss the advantage over solid and liquid proj	
4.	 (a) Velocity of flow section of the nozzle (b) Role of gamma (γ) plane velocity. 	of the following: $2\times5=10$ increases in divergent in the control of the following: $2\times5=10$ is not observed on exit ockets are preferred for

missile applications.

5.	Explain the purpose and utility of rockets. Briefly describe the different sub-systems of a		
	rocket.	10	
6.	Explain in brief the future trends in rockets.	10	
7.	What are the assumptions for thermochemical calculations in combustion of propellants? Explain each assumption in brief.		
8.	Write short notes on any two of the following : $2 \times 5 =$:10	
	(a) Flame Temperature		
	(b) Guidance System of Missile		

 ${\bf (c)} \quad {\bf Boost\ Sustained\ Trajectory}$