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THERMODYNAMICS-II

		5 th Exam/Mech./6953 /Dec'22				
		(For 2018 Batch Onwards)				
Duration: 3Hrs.		on: 3Hrs.	M.Marks:75			
		SECTION-A				
Q1.	Do	as directed.	15x1=15			
	a.	Spark ignition engines are also calledEngines.				
	b.	Piston rings are usually made up of				
	c. Piston speed is equal to					
	d. Firing order of four cylinder engine is					
	e. Compression ratio of diesel engines lies in the range of					
	f.	Diesel engines are also calledEngines.				
	g.	Ratio of BHP to IHP is called				
	h. Indicator method is used to determine					
	i. Compounding of steam turbine is done to					
	j. Diffuser system in ram jet engine is used to					
	k.	k. Thermosyphon system of cooling is better than pump circulation system (True/False)				
	I.	. During idling an engine needs rich mixture (True/False)				
		n. Thermal efficiency of two stroke engine is more than four stroke engine (True/False)				
		. Constant volume cycle is also called diesel cycle (True/False)				
	0.	Rockets can operate in vacuum (True/False)				
		SECTION-B				
Q2. Attempt any six questions. 6x5=30						
		i. Explain piston displacement and compression ratio.				
		i. Define valve lead, valve lag and valve overlap.				
	iii.					
		What are the functions of lubrication in IC engines?				
		What is crank case ventilation?				
		Compare impulse and reaction turbines.				
		What are applications of gas turbines?				
	IX.	What is ram jet engine?				
	CECTION O					
01	٧	SECTION-C	240 20			
		empt any three questions.	3x10=30			
	a.	j				
	b.	Discuss with the help of neat sketch the working of battery ignition system.				
	C.	Why do we cool IC engines? Explain forced circulation type water cooling system.				
	d.					
	e.	Discuss various methods of governing steam turbines.				