11me: 3 Hour		ur Total Marks: 80	Marks: 80	
No	te:			
		1. Question one is compulsory.		
		2. Solve any three out of remaining five.		
Ο1		Write Chart notes with chatch who was a smile ble (Calve and Fore)) 	
Q.1		Write Short notes with sketch wherever applicable. (Solve any Four) Pattern Allowances	20	
	a b			
	b	Electron beam welding		
	c	Rolling mills Coor Hobbing		
	d	Gear Hobbing		
	e	Industry 4.0		
Q.2		Explain different design principles of gating and risering system	10	
	a b	Classify Welding processes and compare arc, gas and resistance welding	10	
	D	Classify Welding processes and compare are, gas and resistance welding	310	
Q.3	a	Describe different sheet metal operations with neat sketches	10	
	h	Write short not on Radial drilling machine	10	
)	Write short not on Radial driffing machine		
Q.4	a	List various methods of taper turning and Explain any one in detail.	10	
	bo	Explain stepwise procedure of powder metallurgy	10	
	A. T.	2. prim step wise procedure of power including.	-	
Q.5	a	Describe the investment casting with working principle, advantages,	10	
		limitations and applications	_`	
	b S	Write short note on gas welding with different types of flames produced	10	
		in it.		
Q.6	s a	Compare the following	10	
		1. Shaper and Planer		
		2. Hot working and cold working		
	b	List various nontraditional machining methods and explain Ultrasonic	10	
		machining in detail		