Paper / Subject Code: 31004 / PRODUCTION PROCESS- III

Time: 3 hours			Time: 3 hours Marks:	Marks: 80	
No	ote	1	All questions carry equal marks.	\$ \$ \$ \$	
		2	Question number one is compulsory.	9	
		3	Solve any three questions from remaining questions.		
		4	Assume suitable data if necessary.		
Q.1	Aı	nsw	er any four of the following.	20	
		i)	Write the classification of automatic machines.	200	
		ii)	Write short note on flexible manufacturing system.	37.50	
		iii)	Explain general arrangement of two plate injection mould.	3	
		iv)	Write short note on jig bushes.		
		v)	Why pilots are used on progressive die? Explain types of pilot.	7	
		vi)	Explain principle, advantages and limitations of Electron beam machining.		
Q.2	a)	Ex	plain principles used for designing jigs and fixtures.	10	
	b)	W	ith the help of neat sketch explain any three types of clamps.	10	
Q.3	a)	W	hy jig should have four feet not three?	05	
	b)	W	rite the design principles used for the turning fixtures.	05	
	c)	W	rite the classification of presses.	05	
	d)	W	hat do you mean by bending allowance? Write the factors affecting it.	05	
Q. 4	Wı	rite	short note on the following.		
		i)	Types of strippers.	05	
		ii)	Double action redraw die.	05	
		iii)	Combination die.	05	
	6 A	iv)	With the neat sketch, write the principle and working of abrasive jet machining.	05	
Q.5	a)	W	ith neat sketch explain feed system. What is the balanced feed system? Also	10	
		W	rite factors affecting runner size.		
	b)		hat is ejection system? List ejection techniques and explain any one of them ith neat sketch.	10	
Q.6	a)	W	hat is agile manufacturing? Also write enablers of agile manufacturing.	10	
	b)	01	explain with neat sketch, principle, working, advantages, limitations & oplications of USM.	10	
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