			I	Duration: 3	3 Hours		Total Marks- 80	
NB:	<ol> <li>First Question (Q.1) is Compulsory.</li> <li>Attempt any 3 questions from the remaining 5 (Q.2 - Q.6) questions.</li> <li>Figures to the right indicate full marks</li> <li>Proportionate and labelled free-hand sketches would do</li> </ol>							
<b>Q.</b> 1 S	olve ar	ny Four out o	of Six.	, J				20
	a)	Explain typ	es of gate	es.	5			
	<b>b</b> )	Differentia	te between	n soldering	and brazi	ing.		
	c)	Explain se	lection of	grinding wh	neel.	Sylver S		
	d)	Explain In	ternet of T	hings.				
	e)	= ( ' )		nical machi	ning.		F . 67	
	f)	Z > V		ed in powde	/ <del>-</del>	ırgy.		
Q. 2	a) Draw and explain Geometry of a Single Point Cutting Tool.							10
	b) Draw and explain screw type injection moulding process with its advantages,							10
	Li	imitations an	d applicat	ions.	ST			
	N. C.						EL SO	
Q. 3	a) Explain working, advantages and limitations of ultrasonic machining.							10
	b) Draw and explain significance of various elements of gating system in sand							10
	casting.							
			A.			(C)		
Q. 4	a) Draw and explain in brief the various welding defects their causes and remedies.							
3	b) Describe the types of drilling machine and their application.							10
	E		, I					
Q. 5	a) Explain working of Submerged Arc Welding with its applications, advantages. and limitations.							10
SIT	b) Di	raw and exp	lain in bri	ef the vario	us rolling	defects their	causes and remedies.	10
Q. 6	Write short notes on (Any four)  a) Compare wood and metal as pattern materials.							20
	<ul><li>a) Compare wood and metal as pattern materials.</li><li>b) Classify Production Processes</li></ul>							
	c) Quick return mechanism on shaper.							
	d) Open die and Closed die forging.							
	e) CO2 Shell Moulding Process.							
	f) Cloud manufacturing.							
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