95 * EXAM *

QP Code : 5395

Duration: 3 hours

		Max. Mai	. 19.
N.B.	(1)	Question No. ONE is compulsory.	
	(2)	Attempt any THREE Questions from remaining FIVE questions.	
	(3)	Support your answer with sketch wherever necessary.	1
	(4)	All questions carry equal marks.	
Q.1.		Explain in brief:-	20
	(a)	Resin transfer molding process of composite manufacturing.	
	(b)	Chemical Machining.	
	(c)	Thread chasers and self-opening die heads.	
	(d)	Gear shaping process.	
Q2.	(a)	Explain the process of Plasma arc Machining with its advantages, limitations and	10
	171 501	applications.	
	(b)	Explain the composite manufacturing processes of Pultrusion and Filament	10
	100	winding.	
Q3.	(a)	Explain the principle of centerless grinding and what are the advantages of this	10
		method over other systems?	
	(b)	Briefly explain the process of thread whirling with its advantages, limitations and	10
		applications.	
Q4.	(a)	How automats are classified? Differentiate between parallel action and	10
		progressive action multi spindle automats.	
	(b)	Write a short note on cylindrical grinding machine. Also explain the I-S marking	10
		system for a grinding wheel?	
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Q5.	(a)	Explain with a neat sketch LBM.	10
	(b)	Explain about chutes, magazines and hoppers used for feeding in automatic	10
		machines.	
Q6.	(a)	Describe in detail the processes of Lapping and Roller Burnishing.	10
	(b)	What is gear hobbing? With neat sketches, explain the principles of gear hobbing.	10