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Roll No. of Pages : 01 Total No. of Questions : 08		
	M.Tech.(ME) ADVANCE MANUFACT Subject Code Paper ID:	TURING PROCESSES : MME-507
Time: 3 Hrs. Max. Marks: 100		
INS7 1. 2.	TRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIG Each question carries TWENTY marks.	
Q1.	a. Explain why studying the chip format operation.	tion is important in understanding machining (10)
	b. List and explain the factors that contribute to poor surface finish in machining operation. (10)	
Q2.	a. Sketch and illustrate the effect of followingi) Resistance;	ing parameters on MRR during EDM process : ii) Current density
	iii) Pulse energy	iv) Capacitance. (15)
	b. Explain the term 'Recast layer' in contex	at to EDM process. (5)
Q3.	. With the help of a neat diagram, explain the working principle and behaviour of various process parameters of Abrasive Flow Machining process. (20)	
Q4.	a. Describe the difficulties you might encountered environment in urban area.	unter in applying explosion welding in a factory (10)
	b. Explain what is meant by solid state weld	ding. (10)
Q5	Explain with the help of neat sketch, the working principle of electromagnetic forming process. How this process is different from other mechanical forming processes? Explain. (20)	
Q6.	a. Do you think that early formation of demolten metal into the mold? Explain.	endrites in a mold can impede the free flow of (10)
	b. Explain the significance of tree in the inv	vestment casting. (10)
Q7.	Compare the solidification time of two optimum risers of the same volume when one has a cylindrical shape and other is of the form of a rectangular parallelepiped. (20	
Q8.	Write short notes on the following:	(10+10)
	a. Ultrasonic welding.	
	b. Super plastic forming.	
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