To	tal No. of Page-01 Roll No Roll No		
		B.Tech. (ME)	
SU	JPPLIMENTARY EXAMINATION Feb201	9	
ME-307 Manufacturing technology – Π			
 Ti	me: 3:00 Hours Maximum Marks: 4	10	
Note: Answer ALL questions. Attempt any TWO parts of each question.			
1	(a) What are the properties of cutting fluid?	4	
	(b) Explain different types of cutting tool materials.	4	
	(c) Explain the working of Photographic method of	4	
	temperature measurement with a sketch.		
2	(a) Explain Merchant Circle diagram and calculate	4	
 	different forces.	7	
	(b) Explain Ernst – Merchant modified theory.	4	
	(c) Name different types of stepless drives methods. Explain	4	
	any one method.		
2	(-) P1-1-1 di		
3	(a) Explain the requirement of designing the spindle.	4	
	(b) What is Sine Bar? Explain the method of measuring the taper angle with sine bar.	4	
	() (1) (1) (1) (1)	4	
	various angle on it.	т	
4	() I was a diagram;	4	
	(b) What are the advantages and disadvantages of ECM?	4	
	(c) Explain EBM process and their applications.	4	
5	(a) What is the summer of it is a line of the line of		
5	(a) What is the purpose of using jig? Explain.(b) Explain the principle of designing the fixture.	4	
	(c) Explain the principle of designing the fixture. (c) Explain different types of clamps used in jig and fixture.	4 4	
	(5) Explain different types of elamps used in Jig and fixture.	4	