- 9. Explain the following:
 - (a) Group technology layout
 - (b) Planning the introduction of group technology and group technology advantages.

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Roll No.

24261

B. Tech. 5th Semester (ME)

Examination - December, 2016

Paper: ME-309-F

Time: Three Hours]

·[Maximum Marks : 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five Questions in total, at least one question from each section, question no. 1 is compulsory. Each question carries equal marks 20 marks.

1. Explain the following:

20

- (a) Milling Fixtures
- (b) Principle of Electron beam machining
- (c) Difference between Jigs and Fixtures
- (d) CNC Machines

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P. T. O.

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	(e)	Orthogonal cutting http://www.Hary	anaPapers.	. WOM the help of neat diagram, explain the working of LBM. What are the critical parameters	
	(f)	Milling Tools		and limitations of LBM?	
-	(g)	Mechanism of metal cutting	5 (a)	How to determine that the jig and fixtures for a particular application will be economical? What	
	(h)	Clamping devices	. (a)		
	(i)	Merchant cutting force circle		are the advantages of jigs and fixtures?	
	(j)	Unconventional machining processes	(b)	How work pieces are located? What is meant by 3-2-1 principle of location? What is the best	
		SECTION - A	mathad to le	method to locate a rough surface?	
,	(a)	What is the effect of cutting speed, depth of cut		SECTION - C	
		and feed rate on the forces on cutting tool? 10			
	(b)	Explain the mechanism of chip formation. Also explain the continuous chips with built up edge. 10	6. (a)	Explain the two axes part programming for milling operation with example 10	
			(b)	Explain the classification on NC system. Also explain the CNC and DNC systems.	
3.	(a)	What is tool life? Explain the different types of			
		tool wear.	7. (a)	Explain in detail how programming is done for	
	(b)	Explain the purpose and types of cutting fluids and effect of cutting fluids on tool life.		NC machine tool?	
		and effect of cutting fluids on tool life. 10	(b)	Discuss the advantages of CNC system. 10	
		SECTION - B		SECTION - D	
	4 (a) With the hole of most elicitals evenly the material				
4	1. (a)	With the help of neat sketch, explain the material removal, surface finish, advantages and application in Electrochemical grinding.	8. Exp	8. Explain the following: 20	
			(i)	Definition, concept and working of group technology.	
			(ii)	Stages for adopting group technology.	
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