[Maximum marks:100]

B.Tech. 5th Semester Examination December-2013 MANEFACTURING TECHNOLOGY-II

Paper-ME-309-F

Time allowed: 3 hours]

Not	e :Attempt any five questions out of nine questi	ons.
	Q.No. 1 is compulsory.	
1.	(a) What is the meaning of cutting speed of a to	001?
	(b) What is the concept of group technology?(c) Explain the purpose of cutting fluids.	
2.	Discuss different types of cutting fluids the properties and their selection giteria.	heir 20
3.	Explain the mechanism of chip farmation discuss mechanies of arnogonal and objique cutting.	the 20
4.	Discuss the process of Electro Chemical Machin	ing. 20
5.	(a) What factors unfluence the design of jigs	and

Describe different types of clamps.

fixtures.

10

10

6. Describe the main features of CNC Machines, which distinguish them from conventional machine tools.

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- 7. What are the different components of Direct Numerical centrol (DNC) system? Explain its principles functions also.
- 8. Explain classification and coding of parts group technology (GT) layout? Also give some benefits of using GT Principles in Production Plants.
- **9.** Write short note on any two:
 - (a) Gean lapping
 - (b) Cemented carbides
 - (c) Merchant circle diagram.

 $2 \times 10 = 20$