B. Tech. 4th Semester (Mechanical Engg.) Examination,

May-2013

MANUFACTURING TECHNOLOGY-I

Paper-ME-202-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Question 1 is compulsory. Attempt five questions in total by selecting at least one question from each section.

- 1. (i) Significance of Rake and clearance angle.
 - (ii) Electrode and its ingredients.
 - (iii) Difference between Brazing and Soldering
 - (iv) Go and NOT Go gages.
 - (v) Rolling defects
 - (vi) Specification of lathe
 - (vii) Taylor Equation of tool life
 - (viii) Risers
 - (ix) Fettling of Casting
 - (x) Tool signature.

 $10 \times 2 = 20$

Section-A

- 2. (a) Make a brief summary of relationship between various angles and forces as per Merchant's analysis of Metal cutting.
 - (b) Explain different types of chips with neat sketches.

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		(·2)	
3.	Define	e parts of twist drill with neat states	sketch and also 20
Section-B			
4.		With the help of neat diagram of milling fixtures.	10
	(b)	Explain Principle of location of	igs and fixtures.
5.	(a) (b)	What is a Gauge? Classify sketches. Explain linear measuring in sketches.	. 10
		Section-C	
6.	(a) (b)	Explain taper turning methods on diagrams. Differentiate between up milling with sketches.	10
7.	(a) (b)	What is casting Process? Ex casting process with suitable di Enumerate the properties of mo	agrams.
		Section-D	
8.	(a) (b)	Explain thermal welding with s What is oxyacetylene welding flames with neat sketches.	? Explain types of 10
		on dista la otavoan'i	20

Differentiate between: 9.

- Blanking and punching. (a)
- Hot and Cold extrusion with neat sketches. (b)

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