# 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.

10×2=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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3.	Define	e parts of twist drill with neat their functions.	sketch and also 20
Section-B			
4.	. ,	With the help of neat diagram milling fixtures.	10
	(b) Explain Principle of location of jigs a		jigs and fixtures.
5.	(a)	What is a Gauge? Classify sketches.	10
	(b)	Explain linear measuring in sketches.	nstruments with
Section-C			
6.	(a)	Explain taper turning methods or diagrams.	10
	(b)	Differentiate between up milling with sketches.	g and down milling 10
7.	(a)	What is casting Process? Excasting process with suitable d	agrams.
	(b)	Enumerate the properties of m	oulding sand. 10
Section-D			
8.	(a)	Explain thermal welding with	sketch. 10
0.	(p)	Lama ryolding	g? Explain types of 10
9		fferentiate between:	20

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

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