20

Time allowed: 3 hours]

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# B.Tech. (ME) 4th Semester F-Scheme Examination, May-2019

#### MANUFACTURING TECHNOLOGY-I

### Paper-ME-202-F

Note: Question No. 1 is compulsory. Students have to attempt five questions in total, at least one question from each section.

1.	(a)	What is tooling economics?		
	(b)	What is milling fixtures?		5
	(c)	What is fettling?		5
	(d)	What is soldering?		5

#### Section-A

What are different tool material 2

2.	(a)	What are different tool material?	10
	(b)	Discuss the mechanics of chip formation.	10
3.	(a)	What is machinery economics and optimizat	ion?

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		-	
			16
			11

## What are different metal cutting theories? 10

### Section-B

4.	(a)	Explain the theories of plasticity in detail.	10
	(b)	Discuss the various types of screw gauge.	10
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detail.	10
gauge.	10
(PT	0

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[Maximum marks:100

5.	Explain	the	following	
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Auto-Collimator

Rolling theory

#### Section-C

What are various basic steps in casting 10 process?

Explain the constructional features of shaper machine in detail. 10

Explain the following:

20

Inspection and quality control

Lathe machine

#### Section-D

Define the welding. Explain any three welding process in detail. 20

What is the basic principle of Hot & Cold working? Explain any three process in detail. 20

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