B.Tech. 4th Semester (ME) F-Scheme Exami	ination
May-2018	
MANUFACTURING TECHNOLOGY	-I
Paper-ME-202-F	

Time allowed: 3 hours	1	[*] Maximum	marks:	100

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 the geometry of twist drills?	5
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- (b) What is the principle of location? 5
- (c) What is the inspection and Quality control? 5
- (d) What is the cold working? 5

Section-A

- What are the different types of chips and their characterstics? Also explain the mechanics of chips formation.
- 3. (a) What are the different elements of machining cost?
 - (b) What is the tailor equation of tool life?

Section-B

4. (a) What are different locating and clamping devices?

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		(2)	4169
	(b)	What are different factors influencing the finish?	surface
5.	(a)	What is the theory of forging?	10
	(b)	Discuss the micro and macro deviation.	10
		Section-C	
6.	(a)	Discuss the gating system.	10
	(b)	What are different constructional feat	ures of
		milling machine?	10
7.	(a)	What are different types of pattern?	10
	(b)	What are different sand casting defe	cts and
		remedies?	10
		Section-D	

8. (a) Explain the different welding defects and remedies in detail.

(b) Discuss the electro slag welding. 10

9. Write short note on the following:

(i) TIG welding

(ii) Friction welding

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