TED (15) – 3023 Reg. No	
(REVISION — 2015) Signature	
DIPLOMA EXAMINATION IN ENGINEERING/TECHN MANAGEMENT/COMMERCIAL PRACTICE — OCTOBE	OLOGY/ R, 2017
MANUFACTURING PROCESS	
	[Time: 3 hours
(Maximum marks: 100)	
PART — A	
(Maximum marks : 10)	
	Marks
I Answer all questions in one or two sentences. Each question carries 2	marks.
1. What is a Comparator?	
2. Name the various types of measurements.	
3. Define arc length.	
4. List out the most common metallic crystal structure.	
5. Define thermo setting plastic.	$(5 \times 2 = 10)$
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PART — B	
(Maximum marks : 30)	
II Answer any five of the following questions. Each question carries 6 mark	S.
1. Explain the working of a reed type Comparator.	•
2. Write notes on:	
(a) Snap gauge (b) Screw pitch gauge	
3. Differentiate soldering and brazing.	· Y
4. Comment the use of flux coating in electrodes.	

7. List out various pattern materials. $(5 \times 6 = 30)$

Write down the various tools used in machine forging.

Describe the types of hand hammers.

[21]

5.

6.

[P.T.O.

Marks

PART — C

(Maximum marks: 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

Unit — I

· III	(a)	Draw the diagram of a vernier caliper and name its parts.	8
	(b)	Explain the working of a dial indicator.	7
		OR	
IV	(a)	How a micrometer works and show the reading 12.46mm.	8
	(b)	Illustrate the working of a depth micrometer with figure.	7
)		Unit — II	
V	(a)	What are the arc welding equipments.	8
	(b)	Sketch and explain gas welding flames.	7
		OR	
VI	(a)	Explain TIG welding process with a sketch.	8,
	(b)	Sketch important welding symbols.	7
	-	Unit — III	
VII	(a)	Explain various crystal defects.	8
	(b)	Describe BCC, FCC and HCP.	7
		OR	
VIII	(a)	List down the various forging methods and explain open die forging.	8,
	(b)	Compare drawing, rolling and forging process.	7
		Unit — IV	
IX	(a)	Explain investment casting.	8
	(b)	Write down the composition of Moulding Sand.	7
		OR	
X	(a)	Sketch and explain plastic extrusion moulding.	8
	(b)·	Describe the common defects in casting.	7