

TED (15/19) -3023
(Revision- 2015/19)

A22-06356

Reg.No.....
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE –APRIL -2022.

MANUFACTURING PROCESS

(Maximum Marks : 100)

[Time : 3 hours]

PART-A
(Max. Marks:10)

Marks

I. Answer **all** the questions in one or two sentences. Each question carries 2 marks.

1. Define Gauge
2. List any two precision measuring instruments
3. Describe the use of electrode in welding
4. What is space lattice
5. Name any two types of pattern

(5x2=10)

PART - B
(Max. Marks: 30)

II Answer **any five** of the following questions . Each question carries 6 marks.

1. Explain
 - a) Line Standard
 - b) End Standard
2. Draw a neat sketch of micrometer and mark all parts.
3. Compare between AC and DC welding
4. With the help of a neat sketch explain MIG welding
5. Differentiate between pres forging and drop forging.
6. Describe any four point defects in crystalline solids
7. Explain
 - a) Refractoriness
 - b) Permeability
 - c) Cohesiveness

(5x6 =30)

PART - C
(Max. Marks: 60)

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

UNIT I

- III** a) Write short notes on (8)
1. Plug Gauge
 2. Ring Gauge
 3. Snap Gauge
 4. Thread Gauge
 5. Slip Gauge
- b) Explain with a neat sketch working of a pneumatic comparator (7)

OR

- IV** a) Draw a neat sketch of a vernier and mark all parts (8)
- b) Explain the working of electric comparator with a neat sketch (7)

UNIT- II

- V** a) Describe different types of joints in welding (8)
- b) List any seven defects in welding (7)

OR

- VI** a) Explain Thermit welding process with sketch (8)
- b) Comparison between welding soldering and brazing (7)

UNIT- III

- VII** a) Explain various the basic three crystal defects (8)
- b) Explain closed die forging with a neat sketch (7)

OR

- VIII** a) Write short note on
1. Direct Extrusion
 2. Indirect Extrusion (8)
- b) Differentiate between hot working and cold working (7)

UNIT – IV

- IX** a) Explain different types of pattern allowance (8)
- b) Discuss about centrifugal casting (7)

OR

- X** a) Comparison between thermoplastic and thermosetting plastic (8)
- b) List any seven hand molding tools (7)
