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

A24 - 8354

Reg.No.....
Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL - 2024

MANUFACTURING PROCESS

[Maximum marks: 100] [Time: 3 Hours]

PART – A
Maximum marks: 10

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

1. Define precision measuring instruments.
2. Explain Arc length.
3. Name different types of Dislocations.
4. Define (a) Moulding (b) Casting
5. What is meant by Thermosetting plastic? (5 x 2 = 10)

PART – B
Maximum marks: 30

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

1. Differentiate between direct measuring and indirect measuring instruments.
2. Write notes on (a) Snap Gauge (b) Screw pitch gauge
3. List the advantages and disadvantages of welding.
4. Explain non-destructive testing of welded joints.
5. List down various types of cold working operations.
6. Describe the types of hand hammers.
7. What are the properties of moulding sand? (5 x 6= 30)

PART – C
Maximum marks: 60

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

UNIT – I

III. (a) Sketch and explain the parts of a Vernier caliper. (8)

(b) Explain the working of a Dial indicator. (7)

OR

IV. (a) How the measuring instruments are classified? (8)

(b) Illustrate the working of a Depth micrometer with figure. (7)

UNIT - II

V. (a) Explain TIG welding process with a sketch. (8)

(b) Explain gas welding flames. (7)

OR

VI. (a) What are the arc welding equipment's? (8)

(b) What are Welding defects? Explain the different types of Welding defects. (7)

UNIT - III

VII. (a) Differentiate between Cold working & Hot working. (8)

(b) Describe BCC, FCC and HCP. (7)

OR

VIII. (a) Explain different Forging methods. (8)

(b) Explain various Crystal defects. (7)

UNIT – IV

IX. (a) Describe various Pattern allowances. (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)
