

TED (15)-6021
(Revision-2015)

N21- 04254

Reg.No.....
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE –NOVEMBER -2021.

ADVANCED PRODUCTION PROCESSES

(Maximum Marks : 75)

[Time : 2.15 hours]

PART–A

Marks

I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. What is Turret
2. List the methods of gear manufacturing
3. List the organic coating materials widely used
4. Define Flexible Manufacturing System
5. List any two Hot dipping methods.

[3x2=6]

PART - B

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

1. Explain the indexing mechanism of a turret lathe with sketch
2. Describe the principle of Broaching
3. Explain Honing process with sketch
4. Explain the metal spraying methods
5. Compare open loop and Closed loop system
6. Compare Automatic and semi automatic lathes
7. Mention the problems in implementing FMS

[4x6 =24]

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks)

UNIT I

- III** (a) Compare between centre lathe and turret lathe (8)
(b) Explain with a neat sketch of single spindle automatic screw machine (7)

OR

- IV** (a) Explain Electric copying system with sketch (8)
(b) List the tool holding devices in Turret lathe and explain Knee tool holder (7)

UNIT- II

- V** (a) List the methods of making gears, Explain gear making by casting (8)
(b) Explain the working of Progressive die with sketch (7)

OR

- VI** (a) Compare between jigs and Fixtures (8)
(b) Explain the Cross rail jig boring machine with the help of a neat sketch (7)

UNIT- III

- VII** (a) List the various types of Bond materials and explain Vitrified bond (8)
(b) List the Hot dipping process, Explain Galvanising and Tin coating (7)

OR

- VIII** (a) Explain the working of a Electrical discharge machining with sketch (8)
(b) Explain plain cylindrical grinding machine with sketch (7)

UNIT-IV

- IX** (a) Interpret the role of AGVS in increasing flexibility in Flexible Manufacturing System (8)
(b) Describe various types of joints used in Robot (7)

OR

- X** (a) Illustrate the Flexible Machining Cell with short notes (8)
(b) Describe the application of CAD and CAM (7)
