

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE , APRIL – 2023**

CAD/CAM

(Maximum Marks : 100)

(Time : 3 hours)

PART – A
(Maximum Marks : 10)

Marks

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

1. Expansion of CAD & CAM.
2. Write any two input and output devices in CAD hardware system.
3. Define CAM.
4. List any four control features of CNC.
5. What is G70 and G71?

(5x2=10)

PART – B
(Maximum Marks : 30)

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

1. Explain CRT with the help of a neat sketch.
2. Discuss the classification of CAD system.
3. List the advantages of CAPP.
4. What is concurrent Engineering?
5. Briefly explain adaptive control system.
6. State the advantages of CNC.
7. Explain about post processing.

(5x6=30)

PART – C

(Maximum Marks : 60)

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

UNIT – I

- III.** (a) With the help of a block diagram explain graphic workstation. (8)
(b) Write a short note on LCD and its working. (7)

OR

- IV.** (a) What are the various geometric modeling techniques? Explain them briefly. (8)
(b) Comparison between 2D and 3D modeling. (7)

UNIT – II

- V.** (a) Describe sequential Engineering. (8)
(b) With the help of a diagram explain process planning. (7)

OR

- VI.** (a) Explain briefly guidelines of design for manufacturing/assembly. (8)
(b) Discuss about 3D printing. (7)

UNIT –III

- VII.** (a) With the help of block diagram discuss components of NC system. (8)
(b) Discuss about Machine Tool Control in CNC. (7)

OR

- VIII.** (a) Differentiate between NC and CNC. (8)
(b) Brief description about classification of turning centers. (7)

UNIT – IV

- IX.** (a) Discuss about hydrostatic slide ways and Linear motion bearing. (8)
(b) Write a short note on fixed zero and floating zero for specifying the origin. (7)

OR

- X.** (a) Explain Multiple repetitive cycle. (8)
(b) Describe about compensation function and its type. (7)
