N19 - 00346

Reg. No. .....

Signature .....

TED (15) – 6024

(REVISION — 2015)

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

CAD/CAM

[*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. Expansion of CADD.
2. Write any two input and output devices in CAD hardware system.
3. State the functions of CAM.
4. List any four control features of CNC.
5. Explain G Codes and M Codes.

(5 × 2 = 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. Briefly discuss secondary storage device.
3. List the advantages of CAPP.
4. What is concurrent Engineering ?
5. Explain about Machining centers.
6. Briefly explain adaptive control system.
7. With neat sketch explain ATC.

(5 × 6 = 30)

[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) With the help of a block diagram explain graphic workstation. 8

(b) Explain type of CAD software. 7

OR

IV (a) What is computer networking and what are the types of Networking ? 8

(b) Briefly discuss about network topologies. 7

UNIT — II

V (a) Describe sequential Engineering. 8

(b) Write a short note on integrated CAD/CAM organization. 7

OR

VI (a) Explain briefly about Rapid prototyping. 8

(b) Discuss about 3D printing. 7

UNIT — III

VII (a) Discuss about Machine Tool Control in CNC. 8

(b) Advantages and disadvantages of CNC. 7

OR

VIII (a) With the help of block diagram discuss about the type of DNC. 8

(b) Brief description about universal machining centre and its advantages. 7

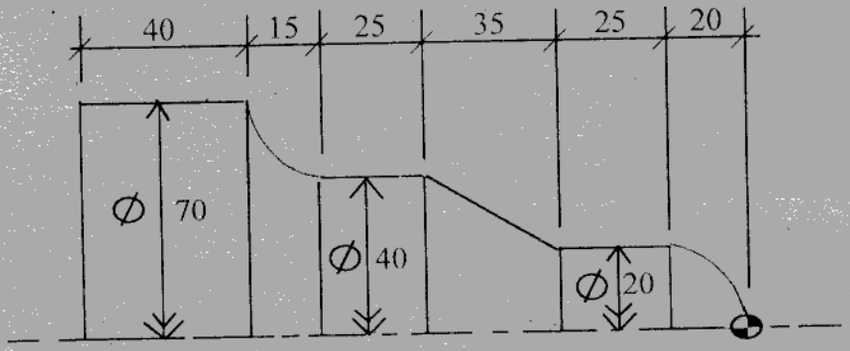
UNIT — IV

IX (a) Explain the type of motion Control in CNC. 8

(b) Write a short note on feedback dives used in CNC. 7

OR

X Write part program for turning operations being carried out on a CNC turning center.



Raw Material : Ms Bar of Diameter 70 mm and Length 160 mm
Diagram not to scale
All dimensions are in mm

15