

No. of Printed Pages : 4  
Roll No. ....

202033

**3rd year / Branch: Advance Diploma in Tool  
and Die Making  
Subject : CNC Technology**

Time : 3 Hrs.

M.M. : 50

**SECTION-A**

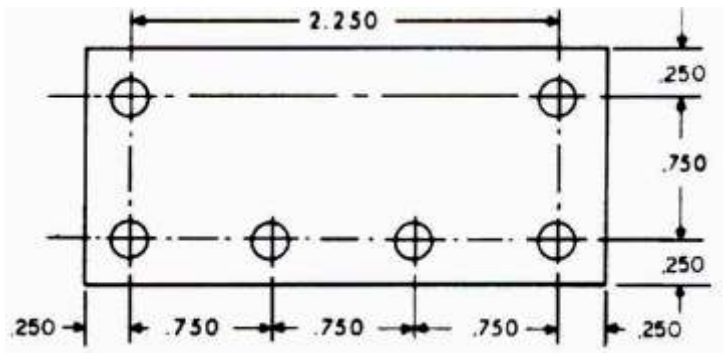
**Note:** Very short answer questions. Attempt all ten questions. (10x1=10)

- Q.1 What are G-codes?
- Q.2 Give example of straight line programming.
- Q.3 Define Do-Loops.
- Q.4 What are preset tools?
- Q.5 Expand MCU.
- Q.6 What is spark erosion machining.
- Q.7 Define a part program.
- Q.8 What are fixed cycles?
- Q.9 Define machine reference
- Q.10 What is peck drill cycle?

## SECTION-B

**Note:** Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Explain designation of rotary axes of CNC.
- Q.12 What are the machine variables to be selected in CNC?
- Q.13 Explain any 5 NC words.
- Q.14 Explain the difference between pairs G00-G01 and G02-G03
- Q.15 Classify CNC based on feedback control
- Q.16 Write a program for the following. assume missing dimensions.



- Q.17 Describe wire cut EDM.
- Q.18 What is DNC? Explain its types.

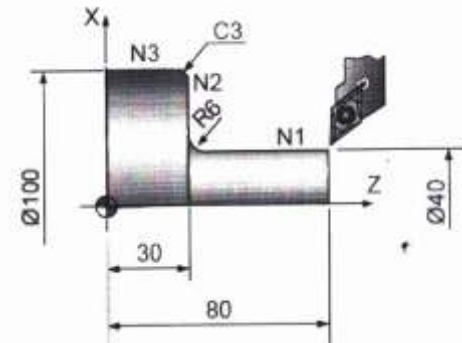
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## SECTION-C

**Note:** Long answer type questions. Attempt any two questions out of three questions. (1x10=10)

- Q.19 Write a Part Program for the following cleaning cut and step turning as in diagram, assuming speed and feeds. (Any missing dimension of the fillets and radius can be assumed)



- Q.20 Explain the following
- Parametric subroutine
  - Tab sequential mode of programming

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