S.B. Roll No..

CNC MACHINES AND AUTOMATION
6th Exam/Mech./5380/Jun'2021
(For 2018 Batch Onwards)

Duration: 1.15Hrs.   **M.Marks:25**

SECTION-A

Q1. Attempt any three questions.   **3x5=15**

   i. Enlist any five industrial applications of CNC.
  ii. What is Tool Coating?
 iii. Explain Incremental Co-ordinate system.
 iv. What is loop control system?
  v. Define the term CIM and FMS
 vi. What do you mean by automatic tool changer (ATC)
vii. What is canned cycle? What are its advantages in programming CNC machines?

SECTION-B

Q2. Attempt any one question.   **1x10=10**

  a. Define CNC? Write its advantages & disadvantages from engineering point of view.
  b. Explain in detail the various types of Automation.
  c. Explain the following with the help of neat diagrams
      i) LVDT   ii) closed loop control system   iii) PLC
  d. Explain the need for flexible Manufacturing system? and explain the benefits of flexible Manufacturing system