

RAN-2403000503049007**B.Sc. (Sem. III) Examination November - 2025****ELEC - MDC - 305****Introduction to Microprocessor****[Total Marks: 25****સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

Student's Signature

Q.1 One word or short answer (Any 5)**05**

- What is a microprocessor?
- What is a bus?
- What do you understand by non-maskable interrupt'?
- What is the function of gate signal in 8253 timer?
- What is meant by instruction?
- What are the basic modes of operation of 8255?

Q.2. Answer (any 2)**10**

- Explain:
 - ADD M
 - DCR D
 - RAR
 - OUT
 - CMA
- Explain the concept of Subroutine in 8085 μ P.
- Write a program for 8085 μ P to find the larger of the two numbers stored in locations F200H and F201H and store it in memory location F202H.

Q.3. Answer (any 2)**10**

- Draw the SIM instruction format and discuss.
- Explain the 8255-control word format.
- What are the different modes of operation of the programmable timer?