



RAN-2403000502049009/2411001002049009

F.Y.B.Sc. (NEP)(Sem. - II) Examination October - 2025

Electronics MDC : Introduction to Microprocessor 8085

Time: 2 Hours]

[Total Marks: 25

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

F.Y.B.Sc. (NEP) (Sem. - II)

Name of the Subject :

Electronics MDC : Introduction to Microprocessor 8085

Subject Code No.: 2403000502049009/ 2411001002049009

Seat No.:

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Student's Signature

Q. 1. Short answer

05

1. What is the size of the address bus in the 8085 microprocessors?
2. How many general-purpose registers does the 8085 have?
3. How many hardware interrupts are available in the 8085?
4. Name the flags of 8085
5. Write the meaning of ALE pin on 8085

Q. 2 A. Describe the various addressing modes of 8085 giving suitable examples

06

B. Write an assembly language program to demonstrate addition of a 16-bit number

04

OR

Q. 2 A. What are interruptions? Explain the 8085 - interrupt structure.

06

B. Discuss the instructions used for conditional and unconditional jump in 8085

04

- Q. 3.** A. Explain the functional block diagram 8085 and discuss the register structure of 8085 **06**
- B. Write a program to subtract two numbers given in memory **04**

OR

- Q.3** A Write a short note on 8085 flags giving suitable examples **06**
- B Describe the three modes of operation of the 8255. **04**
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