



R A N - 2 0 0 3 0 0 0 2 0 4 0 2 0 0 9 2

**RAN-2003000204020092**

**S.Y.B.Sc. (Sem.IV) Examination April - 2023**

**Electronics (Paper-IV)**

**Microprocessor - 8085**

**[ Total Marks: 50**

**सूचना : / Instructions**

(१)

नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**S.Y.B.Sc. (Sem.IV)**

Name of the Subject :

**Electronics (Paper-IV) Microprocessor - 8085**

Subject Code No.: **2003000204020092**

Seat No.:

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Student's Signature

- (2) Figure on the right indicates full marks
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allowed.
- (5) Q.1 is compulsory.
- (6) Assume data if necessary.

**Q.1 Answer in short:**

**08**

- (a) What is a bus?
- (b) What are Software interrupts?
- (c) What is the internal clock frequency of 8085  $\mu$ P if a crystal of 6.25 MHz is used?
- (d) What is an Assembler?

**Q.2 (a) Explain the different Logical group instructions of 8085  $\mu$ P.**

**08**

(b) Explain the function of status signals pins of 8085.

**06**

**OR**

**Q.2 (a) Explain the concept of Subroutine in 8085  $\mu$ P.**

**08**

(b) Write a program to shift eight bit data to 3- bits right. Assume that data is at memory location C200 H.

**06**

- Q.3** (a) Classify the instruction of Intel 8085 according to the word size. **08**  
(b) Explain: **06**  
(i) ADD C  
(ii) IN 02H  
(iii) MOV A, M

**OR**

- Q.3** (a) Describe the general-purpose registers of 8085? **08**  
(b) Write a program for 8085  $\mu$ P to find the smaller of the two numbers stored in locations 2100H and 2101H and store it in memory location 2102H. **06**

- Q.4** **Write short note on. (Any TWO)** **14**  
(a) Register indirect addressing mode  
(b) CALL Instruction  
(c) Instruction cycle  
(d) The 8255 control word format
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