

2411001002049009
EXAMINATION OCTOBER 2024 (ATKT EXAM)
BACHELOR OF SCIENCE (COMPUTER SCIENCE.) SEM-2
MDC-INTRODUCTION TO MICROPROCESSOR 8085A
THEORY

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF SCIENCE (COMPUTER SCIENCE.) SEM-2**
 - b. Name of the Subject: **MDC-INTRODUCTION TO MICROPROCESSOR 8085A THEORY**
 - c. Subject Code No: **2411001002049009**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.
 5. Symbols and abbreviations have their usual meanings.

Seat No:

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Student's Signature

Q.1 Answer in short (Any FIVE)

5

- A) List the general purpose registers of 8085.
- B) State the interrupts available in 8085.
- C) What is vectored and non-vectored interrupts in 8085?
- D) State the bit width of Data bus and Address bus of 8085.
- E) Explain the purpose/function of READY pin in 8085 microprocessor.
- F) What is the function of 8255 chip?

Q.2 Answer (Any TWO)

10

- A) Draw the architecture of 8085A microprocessor and explain in details.
- B) State the five functional classification/categories classified for 8085 instructions and explain (minimum 10 instructions) instruction from any of the category.
- C) Write a program to find larger number between the two numbers stored at consecutive memory location and store the result at memory location 2500H

Q.3 Answer (Any TWO)

10

- A) Define bit, byte, Word, Instruction.
- B) Draw the Flag register of 8085 microprocessor and explain all flags of 8085.
- C) Draw the block diagram of 8253 and explain each block of 8253.
