

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc.(Physics) END SEMESTER EXAMINATIONS NOVEMBER -2023

SEMESTER - V

20UPHET5001 - Microprocessor-8085

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Explain the features of the microprocessor and describe the pin configuration of 8085.
2. Explain the different addressing modes of 8085.
3. Write an 8085-assembly language program to sort an array of data in ascending order.
4. Draw and explain the timing diagram for the memory read operation performed by 8085.
5. Explain the following instructions: DAD rp; CMP M; DAA; CMC,LXI.
6. Discuss the advantages of assembly language over machine language.
7. Briefly explain Direct I/O and Memory-mapped I/O.
8. Write detailed notes on interrupts in the 8085 microprocessor.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Explain the architecture of the 8085 microprocessor with a block diagram.
10. List the general classification of the instruction set of 8085 and explain.
11. Write an 8085-assembly language program to perform the multiplication of 8-bit numbers.
12. Explain the Interfacing of 2Kx8 EPROM and 2Kx8 RAM interface.
13. Describe in detail the LED interface with the microprocessor.
