

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 - APRIL 2025

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. Write a brief note on timing and control unit of 8085.
2. Explain the Data transfer instructions in 8085 with examples.
3. Differentiate between assembly language and machine language.
4. Discuss the timing diagram for MOV B, A with a neat diagram.
5. Explain about the priorities in 8085.
6. Classify the hardware and software interrupts in 8085.
7. Discuss the different memory interface techniques in 8085.
8. Explain the role of rotate instruction in 8085.

Section C

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

9. Explain the architecture of 8085 with a neat diagram.
10. Discuss in details the different addressing modes in 8085 with examples.
11. Give the algorithm and also write the assembly code for ascending order program.
12. Design a memory interfacing circuit for $2K \times 8$ EPROM and $2K \times 8$ RAM using the 8085.
13. Explain the interfacing of LEDs with 8255PPI using 8085 with a neat diagram.
