

2023

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper : CC-10P

(Microprocessor and its Application)

Full Marks : 30

The figures in the margin indicate full marks.

Distribution of Marks :

Theory/Algorithm/Flowchart	: 05
Assembly Language Program for 8085	: 10
Output/Result	: 03
Discussion	: 02
Assignment/Laboratory Notebook	: 05
viva voce	: 05

Answer *any one* question.

SET - II

1. Write an Assembly Language Program for 8085 to separate the positive and negative numbers and store them in separate memory locations. 20
2. Write an Assembly Language Program for 8085 to replace all even positioned numbers using 00H in an array containing sixteen 8-bit numbers and find the sum of even positioned number and store it in suitable memory location. 20
3. Write an Assembly Language Program for 8085 to check an 8-bit number is in palindrom or not. Take at least five sets of data. 20

4. Write an Assembly Language Program for 8085 to find out the value of boolean operation $Z = (X+Y) \cdot (X-Y)$, where X and Y are two 8-bit numbers. Store the result in suitable memory location. 20

 5. Write an Assembly Language Program for 8085 to add two 16-bit numbers and then subtract 55H from the sum. Store the results in suitable memory locations. 20

 6. Write an Assembly Language Program for 8085 to separate all odd numbers present in an array of 16 byte data stored in consecutive memory locations. Store the odd numbers in separate memory locations. 20

 7. Write an Assembly Language Program for 8085 to generate an AP series, where first term, common difference and number of terms are given. Generate at least two different AP series. 20

 8. Write an Assembly Language Program for 8085 to count positive but odd 8-bit numbers from an array containing sixteen numbers. Store the count in suitable memory location. 20
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