

NEW
Part-III 3-Tier
2016

ELECTRONICS

(General)

PAPER—IVC

(PRACTICAL)

Full Marks : 15

Time : 1 $\frac{1}{2}$ Hours

The figures in the margin indicate full Marks.

*Two experiments are to be performed,
Experiments will be selected by Lucky Draw.*

2×5

1. Write an assembly language programme using μp 8085 to multiply one 8 bit number with another 8 bit number stored at two consecutive memory locations using shift and add method.
2. Write an assembly language programme using μp 8085 to find the highest number in a series of data. The length is given in memory location X and the series starts from X+1. Store the result in Y.

(Turn Over)

3. Write an assembly language programme using μp 8085 to find the number of negative, Positive and zero elements in a series of data length of the Series of data is at X and the series starts at X+1. Store the result at Y onwards.
4. Write an assembly language program using μp 8085 to interchange two data bytes stored at memory location X and Y, using indirect register addressing.
5. Write an assembly language programme using μp 8085 to find the 10's complement of a BCD number stored at two memory locations.
6. Write an assembly language programme using μp 8085 to calculate the sum of series of numbers (8-bit). So ignore carries store the sum at some memory location.
7. Write an assembly language programme using μp 8085 to count number of 1's in the content of D register and store the count in B register.
8. Write an assembly language programme in μp 8085 to find the square of a given number from a memory location and store the result in another memory location.

9. Write an assembly language programme in μp 8085 to transfer ten bytes of data from one memory to another memory block.
10. Write an assembly language program in μp 8085 to divide 16 bit number stored in memory locations $X_200\text{H}$ and $X_201\text{H}$ by the 8 bit number stored at memory location $X_202\text{H}$. Store the quotient in memory locations $X_300\text{H}$ and $X_301\text{H}$ and remainder in memory locations $X_303\text{H}$ and $X_303\text{H}$.

Distribution of Marks

	Marks
Experiment (5 + 5)	: 10
Viva-Voce	: 3
Laboratory Note Book	: 2
Total	: 15

