## 2611E666

Candidate's Seat No :

## **B.Sc. Sem-5 Examination**

## **ELE 302**

## Electronics

Time: 2-00 Hours]

execution of instrution RAL twice.

Data (H) 33, 22, 11, A2, CD, B9.

November 2021

[Max. Marks: 50

Instructions: (1) All questions in section-I carry equal marks. (2) Attempt any three questions in section I (3) Questions-9 in section II is compulsory. SECTION I Draw a circuit of 2 × mod 5, mod 10 counter & explain its working. Draw a circuit of synchronous 4 bit up-down counter & explain its working. (b) (a) Draw a circuit of mod 3 × 2, mod 6 counter & explain its working. Write notes on Decoding gates. (b) Draw the block diagram of IC 8085 & explain all 6 blocks. Draw the timing diagram of memory write cycle & explain all T states. (b) Explain in brief FLAG Register. a ) Explain about "Generating control signals". (a) Explain about data transfer, logical & branch instruction in detail. Give timing diagram of "OUT" instruction. (b) Explain about execution of memory related data transfor instruction with timing diagram. (a) Give comparision of memory mapped I/O & peripheral I/O. (b) Assume accumulator contents are AAH &  $C\underline{Y} = 0$ . Illustrate accumulator contents after (a) executon of instruction RLC twice. Assume Accumulator contents are AAH & CY = 0. Illustrate accumulator contents after (b)

A set of current reading is stored in memory location stating at CO70 H. The end of

data string is inducated by data by OOH. Add the set of readings the answer may be

The following block of data is stored in memory location from CO 55 H to CO5AH.

larger than FFH. Display the entire sum at memory location E090 H & E091 H.

Transfer the data to new location CO80H to CO85H in reverse order.