## Term Evaluation (Even) Semester Examination March 2025

	KOL	I 110
Naı	me of the Course and semester: B-Tech CSE- 4 <sup>th</sup> semester me of the Paper: Microprocessors per Code: TCS 403	
Tin	ne: 1.5 hour	Maximum Marks: 50
	(i) Answer all the questions by choosing any one of the sub questions (ii) Each question carries 10 marks.	£:
Q1 a. b.	Draw the programming model of 8085. Explain memory registers of 8085  OR  Categorise different types of signals of 8085 with two examples each	(10 Marks) (CO1 & CO2)
Q2 a.	What will be value of SP and status of flag register after execution of followinitially all the flags are reset.  MVI A 79  ANI 0F  RLC  CMA  MOV L, A  XRI 78  MOV H, A  DAD H  SPHL  HLT	(10 Marks) (CO2 & CO3) owing program? Assume that
b.	OR Draw the timing diagram for instruction JMP 2050	
Q3 a.	Write down any four instructions in 8085 which are used to reset accumul addressing mode of each instruction.  OR	(10 Marks) (CO3) ator. Also determine
b.	Write an ALP using 8085 instructions to determine the sum of series of evnumbers. Store the result in a memory location starting at 3050H. Assume t starting memory location 2050H.	ven numbers in an array of 15 that numbers are stored from
Q4. a.	Explain the difference between i) LHLD 2050 & SHLD 2050 ii) RC & RRC	(10 Marks)(CO3)
b.	OR Write a program in 8085 which set sign flag and parity flag and toggle 3rd	and 5th bit of accumulator.
Q5, a.	How stack is implemented in 8085?	(10 Marks)(CO3)
ъ.	OR Write a program in 8085 which converts 8 bit binary number into gray number	mber,