III SEMESTER B.Tech
MID-SEMESTER EXAMINATION 2021

Course Code- COECC08/CAECC08/CDECC08
Course Title- Microprocessor and Microcontrollers
Time: 1:30 Hrs

Max Marks: 15

Attempt all questions. Missing data/information (If any), may be suitably assumed & mentioned in the answers.

Q. No.	Questions	Marks	CO
Q 1	a) List the various registers of 8085 and explain their functions	1.5	CO1
·	b) Explain the purpose of program counter, stack pointer, and status flag in the architecture of Intel 8085.	1.5	CO1
Q 2	(a)　Explain the following 8085 instructions: LHLD 2500 STAX	2	CO1
·	(b)　Mention the machine cycles encountered in the execution of PUSH instruction	1	CO1
Q 3	a) Write an 8085 ALP for multiplication of two 8-bit numbers	1.5	CO1
	b) Draw and explain timing diagram for I/O write operation.	1.5	CO1
Q 4	a) Define and explain memory segmentation in 8086	1.5	CO2
·	b) Explain addressing modes of 8086 microprocessor with example	1.5	CO2
Q 5	a) Write an 8086 ALP to find the largest element in an array of elements.	1.5	CO2
·	b) Discuss how vectored interrupt of 8086 are triggered, enabled and masked	1.5	CO2