ADAMAS UNIVERSITY PURSUE EXCELLENCE	**ADAMAS UNIVERSITY** **END (EVEN)SEMESTER EXAMINATION : MAY 2021** (Academic Session: 2020 – 21)		
Name of the Program:	B. Tech. (ECE/EE)	**Semester:**	IV
Paper Title :	Microprocessors and Microcontrollers	**Paper Code:**	EEC42108
Maximum Marks :	**40**	**Time duration:**	3 Hours
Total No of questions:	**08**	**Total No of Pages:**	01

Answer all the Groups

Group A

(Answer all the questions)

$\mathbf{5 \times 1 = 5}$

1)

a) Define ALE in 8085. [CO1]
b) Draw and name the flags for 8085. [CO1]
c) Give an example of 16 bit arithmetic operation for 8051. [CO4]
d) What is DAA? [CO4]
e) What are AX, AL and AH in 8086? [CO5]

Group B

(Answer any three of the following)

$\mathbf{3 \times 5 = 15}$

2) Describe BSR mode in 8255. [CO5]
3) Explain the memory architecture of 8051 with required diagram. [CO3]
4) Write a program to find the smallest number in an array for 8085. [CO4]
5) Write short note on flags of 8086. [CO5]

Group C

(Answer any two of the following)

$\mathbf{2 \times 10 = 20}$

6) Explain in details the types of data transfer instructions used in 8051 with suitable examples. [CO5]
7) Write a program to find the square root of a number in 8085. [CO4]
8) Explain the interfacing of 8086 with ADC using 8255 with diagram. Also, write the required program. [CO5] (5+5=10)