

	ADAMAS UNIVERSITY END (EVEN) SEMESTER EXAMINATION : MAY 2021 (Academic Session: 2020 – 21)		
Name of the Program:	B. Tech. (EE)	Semester:	IV
Paper Title :	Microprocessor and Microcontroller	Paper Code:	EEE42104
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)

$$5 \times 1 = 5$$

1)

- a) Name the two types of architecture for microprocessors. [CO5]
- b) Define program counter in 8085 microprocessor. [CO3, CO1]
- c) Give an example and define DAD. [CO1, CO3]
- d) What is LCALL? [CO4]
- e) Explain AJMP with example. [CO4]

Group B

(Answer any three of the following)

$$3 \times 5 = 15$$

- 2) Differentiate amongst JMP, JNC, JNZ and JZ in 8051. [CO4]
- 3) Explain the on-chip memory configuration in 8051 microcontroller. [CO4, CO5]
- 4) Write a program to find the largest number in an array for 8085. [CO1, CO3]
- 5) Write short note on flags of 8051. [CO4]

Group C

(Answer any two of the following)

$$2 \times 10 = 20$$

- 6) Explain in details the mode definition format in 8255 with suitable program word diagrams. [CO2, CO5]
- 7) Write and demonstrate with an example a program to find cube of a number in an 8085 microprocessor. [CO3, CO1]
- 8) Draw the pin diagram of ADC0804. Describe the interfacing of 8086 with ADC0804 with relevant program. [CO2, CO5]
(5+3+2=10)