



ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION : JANUARY 2021
(Academic Session: 2020 – 21)

Name of the Program:	B. Tech.	Semester:	V
Paper Title :	Microprocessor and Microcontroller	Paper Code:	EEC43101
Maximum Marks :	40	Time duration:	3 Hrs
Total No of questions:	8	Total No of Pages:	1

Answer all the Groups

Group A

Answer all the questions of the following

$5 \times 1 = 5$

1. a) Name the two types of architecture for microprocessors. [CO5]
b) Define stack pointer in 8085 microprocessor. [CO1]
c) What is the function of DAD mnemonic in 8085 microprocessor? [CO1, CO3]
d) What are the basic differences between 8085 and 8086 microprocessor? [CO1, CO2]
e) What are the ports of 8255? [CO5]

GROUP –B

Answer *any three* of the following

$3 \times 5 = 15$

2. Draw and explain the architecture of 8085 microprocessor. [CO1]
3. Explain the various addressing modes in 8051 microcontroller with examples. [CO4]
4. Explain the on-chip memory configuration in 8051 microcontroller. [CO4, CO5]
5. Draw and explain the Flags in 8051 microcontroller. [CO4]

GROUP –C

Answer *any two* of the following

$2 \times 10 = 20$

1. Write and demonstrate with two examples a program for adding two numbers in an 8051 microcontroller. [CO3, CO4]
 2. Write and demonstrate with an example a program for finding square root in an 8085 microprocessor. [CO3, CO1]
 3. Explain the counters and timers in 8051 microcontroller and subsequent interfacing. [CO4, CO5]
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