

	<p style="text-align: center;">ADAMAS UNIVERSITY END-SEMESTER EXAMINATION: May 2021 (Academic Session: 2020 – 21)</p>		
Name of the Program:	MCA	Semester: (I/III/ V/ VII/IX)	IV
Paper Title :	Microprocessor and Embedded system	Paper Code:	EEC52102
Maximum Marks :	40	Time duration:	3Hr
Total No of questions:	08	Total No of Pages:	01
(Any other information for the student may be mentioned here)			

Answer all the Groups

Group A

Answer all the questions of the following

5 × 1 = 5

1. a) Explain significance of Flag register in any Processor or Controller.
- b) Write any two addressing mode of 8086 Microprocessor.
- c) Define purpose of Embedded system.
- d) Write two difference between RISC and CISC.
- e) 8051 is suitable microcontroller for Embedded system? Justify.

Group –B

(Short Answer Type Questions)

Answer *any three* of the following

3 × 5 = 15

2. Explain 5 different types arithmetic group and 5 different types logical groups instructions of 8086 microprocessor. [5]
3. Explain BIU unit of 8086 microprocessor. [5]
4. Explain operational quality attributes with example.. [5]
5. Explain TCON and TMOD special function registers of 8051 Microcontroller. [5]

GROUP –C

(Long Answer Type Questions)

Answer *any two* of the following

2 × 10 = 20

6. a) Explain detail of SPI as internal communication Interfaces . [4]
- b) Discuss few characteristics of Embedded systems. [6]
7. a) Discuss about Seven segment display & Push button switches I/O Sub-systems. [5]
- b) Explain IE and IP special function register of 8051 microcontroller. [5]
8. a) Explain the features of 8051 microcontroller. [4]
- b) Differentiate between a Microprocessor and a Microcontroller. [6]

