SΒ	Roll	No			
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# MICROCONTROLLER AND EMBEDDED SYSTEMS 5<sup>th</sup> Exam/ECE/3610/Jan/2022 (FOR 2018 BATCH ONWARD)

Duration: 1.15Hrs. M.Marks:25

#### **SECTION-A**

### Q1. Attempt any three questions.

3x5=15

- i. Give the block diagram of 8051.Explain.
- ii. Discuss the different modes of the timer operation.
- iii. Describe the interfacing of Keyboard with Microcontroller 8051.
- iv. List down the various applications of Microcontroller.
- v. What is a Microcontroller?
- vi. Describe the I/O port structure of 8051.
- vii. What is Peripheral Interface Controller?

#### **SECTION-B**

## Q2. Attempt any one question.

1x10=10

- a. Explain the Addressing modes of 8051 with the help of suitable examples.
- b. List the different types of instructions of 8051. Explain any one group with examples.
- c. Draw and explain the architecture of 8051.
- d. Draw the PIN diagram of 8051 Microcontroller. Explain the function of each pin.