

S.B. Roll. No.....

MICROCONTROLLERS AND EMBEDDED SYSTEMS
5th Exam/ECE/3610/Jun'2021
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What are the important features of 8051?
- ii. What are the applications of 8051?
- iii. Explain any six logical instructions.
- iv. Explain the function of assembler.
- v. Explain PSW register in detail.
- vi. Discuss TMOD register.
- vii. Discuss various interrupt sources of 8051.
- viii. What is the difference between microprocessor and microcontroller?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain the architecture of 8051 microcontroller in detail.
- b. Explain in detail the pin diagram of 8051.
- c. Explain the block diagram of Arduino in detail.
- d. Write short notes on any two i) Debugger ii) Simulator iii) PIC