

S.B. Roll No.....

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

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What are the applications of microcontroller in communication system?
- ii. Explain Interfacing of stepper motor with 8051 microcontroller.
- iii. Give the various features of 8051 μ C?
- iv. Write a program in assembly language to add two 8-bit numbers.
- v. What is addressing mode and its types? Give example of each.
- vi. What do you mean by assembler directives? Where they can be used?
- vii. List advantages of PIC microcontroller?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain the following assembler directives with example.
ORG EQU END DB USING
- b. Draw pin diagram of 8051 microcontroller and explain function of each pin.
- c. List various logical instructions and give example of each.
- d. Write Short note on the following. i) Interfacing of ADC ii) Interfacing of 7-Segment Display