

(ELE 7303 A)
B.Sc(MECS) Degree (CBCS) Examinations
AUGUST - 2021
EXAMINATION AT THE END OF SEMESTER- VI
PART-II ELECTRONICS
MICRO CONTROLLERS & APPLICATIONS

TIME : Three hours

Maximum : 60 Marks

Section – A (Short Answer Type Questions)

Answer any **FIVE** out of the following ten questions

5 X 4 = 20 Marks

1. Compare Microprocessor and Microcontroller
2. Draw the pin Diagram of 8051 Microcontroller
3. Explain Arithmetic and Logical instructions in 8051 Microcontroller with example
4. Write an ALP for addition of two BCD numbers
5. Explain SBUF register.
6. Explain TCON register
7. Explain the interfacing of ADC
8. Explain the interfacing of seven segment display
9. Draw the pin diagram of PIC16CXX Microcontroller
10. Explain the data memory in PIC16CXX Microcontroller

Section – B (Essay Type Questions)

Answer **ALL** the following questions with internal choice

5 X 8 = 40 Marks

11. Explain the architecture of 8051 Microcontroller with neat diagram

Or

Explain memory organization of 8051 Microcontroller

12. Explain the Addressing modes of 8051 Microcontroller

Or

Explain the classification of instruction set of 8051 Microcontroller.

13. Explain the programming in mode0

OR

Explain the programming in mode 1

14. Explain briefly about keyboard interfacing to 8051 Microcontroller

OR

Explain the interfacing of DAC to 8051 Microcontroller

15. Explain briefly about Embedded systems

OR

Explain the block diagram of PIC16CXX Microcontroller and explain

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