

**BT-6/M-20**

**36157**

**INTRODUCTION TO MICRO CONTROLLER**

**Paper-IT-308 N**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, and select atleast *one* question from each unit.

**UNIT-I**

1. What are microcontrollers and describe its classification in detail with example ? 15
2. Explain different types of flags of :
  - (a) 8051 7
  - (b) Explain Block diagram of 8051 micro controller. 8

**UNIT-II**

3. Explain 8051 Data transfer instructions with example. 15
4. Write a program in C to explain the 8051 instructions. 15

**UNIT-III**

5. What are external memory Interfacing ? Explain with example. 15

6. What do you mean by times programming ? Explain 8051 timer programming. 15

#### UNIT-IV

7. Explain interfacing of micro controller with stepper motor. 15
8. Explain D/A and sensor interfacing. 15
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