**Babasaheb Ambedkar Govt. Polytechnic**

**2nd Internal 5th Semester(F.M=20)**

**Microcontroller And It’s Application**

1. **Answer the 3 M.C.Q questions along with justification (3\*2=6)**
   * 1. **The JZ, JNZ, instructions checked content of \_\_\_\_\_\_\_ register**

(a) DPTR (b) B (c) A (d) PSW

**Or**

* + 1. **MOV A,#56H is an example of \_ addressing mode**

(a) immediate (b) register (c) register indirect (d) index

* + 1. **The first character in 8051 label must be an alphabetical character (True/False)**
    2. **Find the number of times the following loop will be executed**

MOV R6,#200

BACK:MOV R5,#100

HERE:DJNZ R5, HERE

DJNZ R6,BACK

END

(a) 100 (b) 200 (c) 20000 (d) 2000

1. **Answer the 2 Questions (mandatory c, any 1 between a and b) (7\*2=14)**
   1. Discuss different 8051 addressing modes with examples

**Or**

* 1. Write a program to move 5 bytes of data starting from memory location 6000 H to 80H consecutively
  2. Write different steps involving running a assembly language program.

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