

Dr. Gagnesh Kumar

21/5/2022
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Roll No.....

End Term Examination

Department of Electronics & Communication Engineering, NIT Hamirpur

Microcontroller and its Applications (EC - 380)

Duration: 180 Minutes

Max Marks: 50

Note: All questions carry equal marks.

- Q.1** Explain pipelining and clocking schemes implemented in 8085. Discuss the complete memory model of 8051.
- Q.2** Differentiate between Data & Program Memory. Draw the block diagram of 8051 and discuss its functional blocks.
- Q.3** How many interrupt sources are used in 8051? Do explain the function of interrupt enabling, interrupt vectors, interrupt priorities, serial interrupt and sequence of events that take place after issuing an interrupt.
- Q.4** Write an assembly code for multiplication of two 8 - bit numbers in 8051. Discuss Embedded Computing.
- Q.5** Interface 8051 with LCD and DAC. Also explain the working principles of the interfaced circuits.