

**End Semester Examinations - 2015-16 Even Semester - May 2016**

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**14EC2079 Microprocessors and Microcontrollers**

**Set B**

**Time : 3 hrs**  
**Total Marks: 100**

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1. With examples explain the various Addressing Modes available in 8085. Mention the size of each instruction corresponding to the addressing modes  
**OR**
  2. Interpret the operation of MOV A, B instruction graphically using a Timing Diagram
  3. With a neat sketch explain the functional block diagram of 8085  
**OR**
  4. A. Write an assembly level programme to transfer a block of 10 numbers from memory location 4200 to the memory location 4600 (10)  
B. Write an assembly level programme to convert a hexadecimal number to decimal number (10)
  5. Explain the timer control logic and its mode of operation in 8051  
**OR**
  6. Write an assembly level programme in 8051 to generate a square waveform of 1kHz and a sawtooth waveform of 50Hz using a crystal frequency of 12MHz.
  7. With a neat diagram explain the Architecture of 8051  
**OR**
  8. Draw and explain the interfacing of LCD with 8051 Microcontroller
  9. With relevant diagram explain Stepper motor control using microcontroller
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**Wishing you All the Best**

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