June 2014

Bachelor of Computer Application (BCA) Examination

VI Semester

Micro Processor and Assembly Language Programming

Time : 3 Hours] [Max. Marks : 50

Note : *Attempt all Five questions. Write answer of any two parts from each question.*

1. (a) Write various addressing modes of 8085, Explain them with example.
   (b) Make the pin-out diagram of 8085. Explain its various pins in brief.
   (c) Write the various components of CPU. Explain them in brief.
2. (a) Explain following instructions with example :
   (i) LDAX (ii) STA (iii) ADC (iv) XRA.
   (b) Write an assembly language program to count number of one's in given data byte.
   (c) Write an assembly language program to check that given number is even or odd. If it is even then store OD at memory location 2000, and if it is odd then store 01 at memory location 2000.
3. (a) Write various interfacing techniques which are used between processor and I/O devices. Explain one of them.
   (b) Explain any one memory interfacing technique.
   (c) Write short notes on the following :
   (i) Tristate Buffer (ii) Address Space Partitioning.
4. (a) Make the pinout diagram of 8255. Explain its various pins in brief.
   (b) What are the applications of 8155 1C ? Write its various features.
   (c) Explain keyboard interface in 8279 1C.
5. (a) Make the architecture of 8051. Explain its components in brief.
   (b) Write comparison between microprocessor and microcontroller.
   (c) Write short notes on 8086 microprocessor.

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