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Bachelor of Computer Application (BCA) Examination VI Semester

Micro Processor and Assembly Language Programming

Time: 3 Hours]

[Max. Marks: 50

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

- (a) Draw internal block diagram of 8085 microprocessor to show its all internal block units.
 - (b) Explain the usage of following functional pins of 8085:
 - (i) READY
 - (ii) HOLD
 - (iii) INTR
 - (iv) S₀, S₁
 - (v) ALE.
 - (c) Explain different addressing modes of 8085 with an example for each.
- (a) Write an assembly language program to subtract two BCD numbers. Each number is of two digits. Store the result after subtraction at memory location 2005 H.
 - (b) Write an assembly language program to find smallest number among a series of five numbers available from 2000 H onwards. Store the result at 3000 H.
 - (c) Explain following instructions:
 - (i) LDAX (ii) CC (iii)
 - (iii) JM
- (iv) CPI (v) DAD.
- (a) Sketch as interfacing circuit to interface 1 k byte of RAM with 8085 and specify the address assigned to the chip.
 - (b) Sketch an interfacing circuit to interface output device using a latch in 8085 system and assign address FF H to the device.
 - (c) Explain various address assignment schemes to I/O devices in 8085 system.

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- 4. (a) Draw internal block diagram of 8279 keyboard / display controller.
 - (b) Assume address assignment to 1C 8255 starts from 80 H onwards. An input device is connected to Port A and an output device is connected to Port B of IC 8255. Write an application program for 8085 system to read Port A and display the same on Port B after regular time interval.
 - (c) Explain timer mode of operation of IC 8155.
- (a) List different criterias for choosing microcontroller instead of microprocessor.
 - (b) Explain internal RAM organization of microcontroller 8051.
 - (c) Compare between Microprocessors of diffrent series.

