

Roll No.....

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B.TECH(CSE), 2014
MICROPROCESSORS AND ASSEMBLY LANGUAGE
PROGRAMMING
PAPER CODE:CS 208
PAPER ID:[A0461]

Time allowed: 03 hours

Maximum Marks : 60

Instruction to candidates:

- 1) Section-A is compulsory consisting of Ten questions carrying two marks each.
- 2) Section-B contains Five questions carrying five marks each and students has to attempt any four questions.
- 3) Section-C contains three questions carrying ten marks each and students have to attempt any two questions.

Section-A

Q:1)

- (a) Explain the function of the system controller in 8085?
- (b) Write Instructions to load the hexadecimal number 65H in register C, and 92H in the Accumulator A. Display the number 65H at port 0 and 92H at port1?
- (c) What are the conditions that will cause BIU to suspend fetching instruction?
- (d) List the different categories of 8085 instructions that manipulate data?
- (e) What are the various component of emulator?
- (f) What is power saving option of 8051?
- (g) Give the block diagram of 8086 memory banks?
- (h) Assume that the accumulator contains data byte 82H, and the instruction MOV C, A (4FH) is fetched. List the steps in decoding and executing the instruction?
- (i) Give the significance of SIM and RIM instruction available in 8085?
- (j) Differentiate a microprocessor and a microcontroller?

Section-B

- Q:2)** Explain the interrupt driven data transfer techniques in 8085?
- Q:3)** Write an assembly language program in 8085 to find the largest number in a data array?
- Q:4)** Discuss the interfacing of matrix keyboard with 8085 microprocessor in detail?
- Q:5)** Discuss PSW in detail for 8085 microprocessor?
- Q:6)** Explain the different registers used in 8251 USART IC.

Section-C

- Q:7)** What is microcontroller? Discuss the architecture for 8051 microcontroller?
- Q:8)** Define the different modes of operation of DMA. What are various control signals generated by DMA controller in master mode?
- Q:9)** Diagrammatically explain how 8251 is interfaced with 8085 and used for serial communication.

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