

4E2915

B. Tech. IV Semester (Re Back) Examination 2012

Computer

4CS2 Microprocessor and Interfaces

Common for CP and IT

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any **five questions** selecting **one question** from **each unit**. All questions carry **equal marks**. (Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).

Unit - I

1. a) Define and explain following:-
 - i) Buffer
 - ii) Bus system
 - iii) Flags of 8085 microprocessor
 - iv) General purpose programmable registers. (8)
- b) Draw and explain the functional block diagram of 8085 microprocessor. (8)

OR

1. a) Explain through block diagram the similarities and difference in microprocessor, microcontroller and microcomputer devices. (8)
- b) What is peripheral input output and memory mapped input output? Differentiate between them. (8)

Unit - II

2. a) What do you mean by machine cycle? Mention the various types of machine cycle available with 8085 microprocessor. Show the timing diagram of any one machine cycle. (8)
- b) Write a program to store 00 in 100 locations starting from 2000H. (8)

OR

2. a) Explain various addressing modes with example in 8085 assembly language programming. (8)
- b) Write an assembly language program to exchange of the 10 data contained from the memory location 2000 onwards with memory location 2050 onwards. (8)