

MCA 3rd Sem-2019**Time: 3 Hours****Full Mark: 70****(Answer all questions and the figures in the right hand margin indicates marks)**

1. Discuss about the 8085 Microprocessor Pinout and signals with neat diagrams. 14

OR

Draw the 8085 microprocessor functional block diagram and explain the operation of all the blocks. 14

2. Draw the 8085 timing diagram for execution of IN and OUT signals with examples. 14

OR

Illustrate the basic concepts of Memory and I/O Interfacing. Discuss how I/O interfacing is done in seven segment LED display as output device and receiving data input from DIP switches with neat diagrams and necessary instructions, with 8085 microprocessor. 14

3. Discuss about the 8085 programming model and instruction classification in detail, with examples. 14

OR

Discuss about the 8085 instruction format with examples. Write an ALP to add two hexadecimal numbers with comments on each step. 14

4. Discuss about the various features of 8086 along with various versions of 8086. How is it different from 8088, 80186, 80286 and 80386? Discuss about the various addressing modes of 8086 microprocessor in detail with one example from each. 14

OR

Draw and explain the working of internal architecture of 8086 microprocessor in detail. 14

5. Discuss about the 80386 microprocessor system block diagram and various aspects of its programming model. 14

OR

Discuss about the basics of CRT. Explain the how to interface a CRT terminal to 80386 Microprocessor.14
