

G.S Mandal's
Marathwada Institute of Technology
Department of Computer Science and Engineering
Subject: Microprocessor and Computer Organization

Class: SE A and B

2017-18 part II

Assignment 1

1. List the memory sizes for 8086 to Pentium microprocessor
2. What is the function of SI & DI registers?
3. Write the function of direction and overflow flag of 8086 microprocessor
4. What is the advantage of segment plus offset addressing mode?
5. If stack segment register contains 3245H and stack pointer register contains 3000H, what is the 20 bit physical address generated by 8086 microprocessor.
6. Explain the real mode memory addressing of 8086 microprocessor.
7. What is the difference between minimum mode and maximum mode operation of 8086
8. Explain the use of general purpose register of 8086 microprocessor with appropriate examples

Assignment 2

1. Explain shift and rotate instructions with suitable examples.
2. Write an assembly language program to check whether entered number is even number or odd number
3. Explain logical instructions of 8086 microprocessor.
4. Differentiate between JMP and CALL instruction.
5. Write an assembly language program to perform 16 bit by 8 bit division.
6. Explain Structure of Instruction

Assignment 3

1. What is ISR
2. Explain hardware and Software interrupt in detail
3. Explain IVT in Detail
4. Explain following interrupt related instructions
i) BOUND ii) INTO iii) INT3 iv) IRET
5. Explain DOS and BIOS Interrupts

Assignment 4

- 1 Explain Von Neumann Architecture
- 2 Explain Interconnection of components of computer and performance of computer
- 3 Differentiate RISC and CISC architecture.