1.   With the suitable example explain various memory reference instructions.   [15]

2.   Draw and explain the flag register of 8086 microprocessor.   [15]

3.   Write an assembly language program in 8086 to arrange the given 16-bit numbers in lowest to highest order.   [15]

4.   Discuss briefly about direct memory Access.   [15]

5.a) Distinguish the characteristics of RISC and CISC.
   b) What is cache memory? Explain the need of cache memory.   [9+6]

6.   What is register transfer language? Explain the basic symbols used in register transfer. Give examples for each one.   [15]

7.   Explain the physical address calculation in 8086 microprocessor.   [15]

8.   Explain about Interrupts and Interrupt service routines in detail.   [15]

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