IMPORTANT QUESTIONS

Q1. Discuss why an interrupt controller is required. Describe the interrupt controller 8259.

Q2.What are hardware and software interrupts? What is an ISS ? Is ISS same or different for different I/O devices.

Q3. Discuss how to determine the control word of 8255?

Q4. What are various operating modes of 8253?

Q5. Discuss how 8253 is used to generate Square wave.

Q6. How many functional units does 8086 contain? Discuss in detail.

Q7. Discuss the function of instruction pointer and stack pointer in 8086.

Q8. How many interrupt lines does 8086 have? Explain in detail.

Q9. Explain the flag register of 8086.

Q10. What are LOCK and LOCK bar? Discuss their roles.

Q11. Discuss the various addressing modes of 8086.

Q12. What are assembler directives? Explain in detail.

Q13. Write an assembly language program in 8086 to find the smallest/largest number from an array.

Q14. Write an assembly language program in 8086 to find the square root of a number.

Q15. Explain the memory segmentation of 8086.

Q16. Write an assembly language program in 8086 to move a block of bytes from one memory location to another memory location.

Q17. Write an assembly language program in 8086 to find the largest number from an array.

Q18. Write an assembly language program in 8086 to find the smallest number from an array.

Q19. Draw and explain the block diagram of 8085.

Q20. Draw and explain the block diagram of 8086.

Q21. Explain all the pins of 8085 and 8086.

Q22. Explain how 8253 generates square wave on port A.

Q23. Explain the control word of 8237 with ex.

Q24. Draw and explain the functional units of PIC.

Q25. Explain all the branch control instructions of 8086.