**SHORT ANSWER QUESTIONS**

1. Write about DAC & ADC
2. Define memory mapped I/O.
3. Differentiate between multiprocessor and multicomputer
4. Write about DMA
5. Differentiate microprocessor and micro controller
6. Explain instructions XRA A and CMP B.
7. Write primary feature of 8259A
8. Explain function of ALE
9. Write about DRAM
10. Write about stacks
11. Explain serial bus of RS 232C
12. Define baud rate? How does it affect data transmission?
13. Write Assembly language program to perform subtraction of two 8-bit numbers without using subtraction Instruction.
14. Write about memory hierarchy
15. Write Assembly language program to perform multiplication of two 8-bit numbers whose result is 16bit using 8085 instruction set. 5M
16. Explain virtual memory
17. What is the purpose of TLB?
18. Discuss virtual memory
19. Compute the effective memory access time, where cache access time takes 4 ns, while main memory access time is 50 ns with 80% hit ratio.
20. Write about interrupts in detail
21. How performance is measured in computer system
22. Explain instruction i. DAA ii. CMA
23. Write about subroutine
24. Explain Parallel bus standard of RS232 C

**LONG ANSWER QUESTOINS**

1. Discuss Historical perspective of computer 7M
2. Explain in detail organization of 1K memory cell with neat diagram 10M
3. Discuss Addressing modes of 8085 in detail 10M
4. Explain functional units of computer 7M
5. Write in detail about Analog to Digital converters 10M
6. Explain in detail working of Interval timer (Intel 8253 /8254) 10M
7. Explain Block diagram of computer in detail 5M
8. Discuss Programmable communication interface (Intel 8251) 10M
9. Discuss types of Mapping functions 10M
10. Describe types of computers 7M
11. Explain types of RAMS in detail 8M
12. Explain in detail Architecture of 8085 microprocessor 10M
13. Explain in detail working of DMA Controller (Intel 8257) 10M
14. Explain in detail working of 8255 PPI in I/O mode 10M
15. Discuss in detail working of keyboard /Display controller (Intel 8279) 10M