

## **CSA Questions Bank**

1. Define different logic gates.
2. Define rule of Boolean algebra.
3. What is Adder? Explain types of adders
4. Explain S-R flip flop
5. Explain J-K flip flop and T Flip Flop.
6. What is use of Multiplexer? Explain 3\*8 multiplexer.
7. Define 3 to 8 line decoder.
8. Explain different types of registers.
9. What is counter? Explain types of counters with example.
10. Define Fixed and Floating point representation.
11. Define 1<sup>st</sup> and 2<sup>nd</sup> complement of the decimal numbers
12. Make binary addition and subtraction of the decimal numbers.
13. Conversion of decimal to binary, binary to octal, octal to hexadecimal.
14. Explain the instruction set
15. Explain instruction cycle in detail
16. Explain system bus.
17. Explain Arithmetic and logic micro-operations
18. What is interrupt? Explain types of interrupts
19. Explain Data transfer micro-operations
20. Define Stack organization.
21. Explain type of addressing modes.
22. Define instruction format.
23. What is pipeline? Explain about pipeline hazards
24. What is parallel Processing?
25. Define the memory hierarchy and explain it.
26. Explain cache mapping with example.
27. What is memory interleaving? Define it.
28. What is the difference between main memory and cache memory?
29. Explain Cache write policies in brief.
30. Explain cache replacement algorithms with example.
31. What is DMA? Explain with example.
32. Explain file system structure: Mode of Data Transfer.