**Question bank on module 5 and module 1**

1. Define Registers. Explain different types of registers.
2. Explain Parallel in serial out register
3. Explain parallel adder with accumulator
4. Explain sequential parity checker
5. Explain Moore state machine with example
6. Explain Melay state machine with example
7. Explain Asynchronous counters with truth table and timing diagram
8. Explain base bias or fixed bias
9. Explain collector to base bias
10. Explain voltage divider bias
11. Explain peak detector circuit
12. Explain inverting Schmitt trigger circuit with its waveforms and transfer characteristics
13. Differentiate between Active and passive filters
14. Explain the advantages of active filters over passive filters
15. Explain Non-linear amplifier
16. Explain the working of Relaxation oscillator
17. Explain voltage to current converter and current to voltage converter
18. Explain analog to digital and digital to analog converters