- 1. Design a circuit that will do the following:
- i. add if both numbers are same
- ii. sub if both numbers are different
- 2. Design a circuit that will do the following:
- i. sub if both numbers are same
- ii. add if both numbers are different
- 3. Design a Half adder using a decoder.
- 4. Draw the circuit diagram of a 4 X 16 decoder.
- 5. Design a 5x32 decoder using only 3X8 decoder(s)
- 6. Design a 13-person voting system using only 3-bit parallel adder(s).

Note: You must mention MSB and LSB wherever necessary.