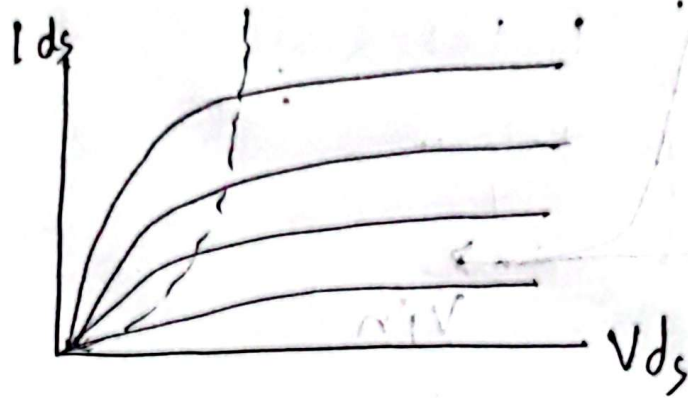


1)



2) Why NMOS Preferable?

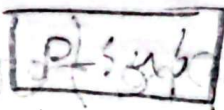
= NMOS is N-type Metal Oxide Semiconductor transistor. It has often ~~proff~~ preferred over PMOS transistor because they are faster and more efficient

- i. Faster Switching Speeds
- ii) Higher Drive Current
- iii) Compact Design . NMOS Circuits require smaller area compared to PMOS for the same current capability

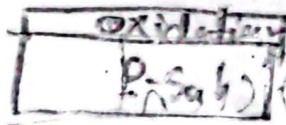
3) Draw the process diagram of

N-well process.

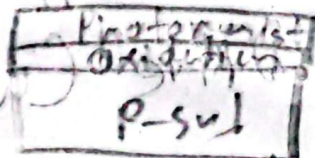
1) Substrate



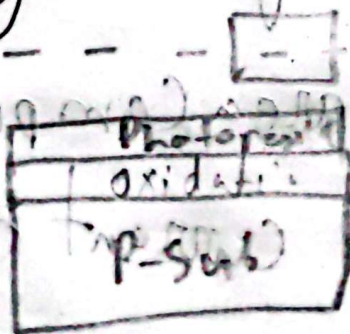
2) Oxidation



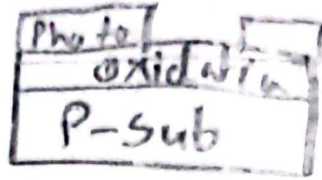
3) Photo resist



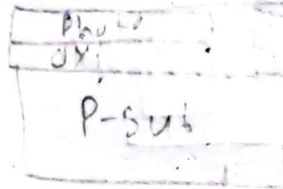
4) Masking



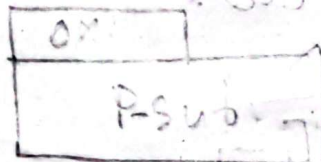
5) Photo resist removal



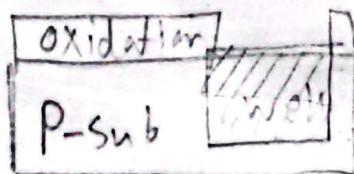
6) Removal of SiO_2 using acid etching



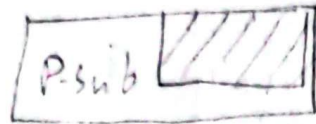
7) Removal of photoresist



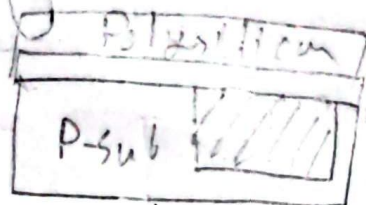
8) Formation of the N-well



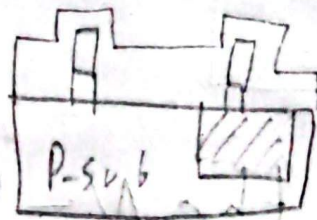
9) Removal of SiO_2 layer



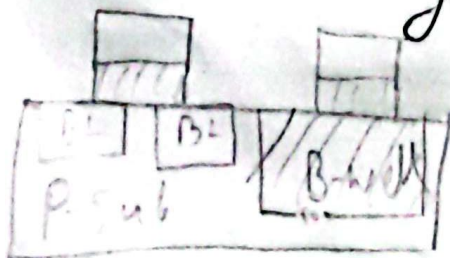
10) Deposition of polysilicon



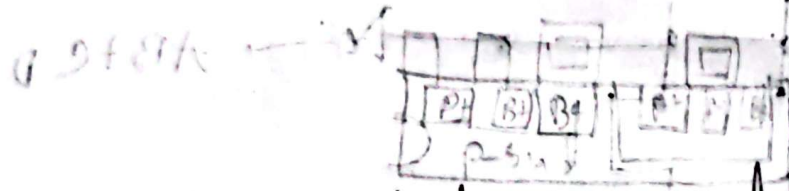
11) Removing the layer barrier and oxidation process



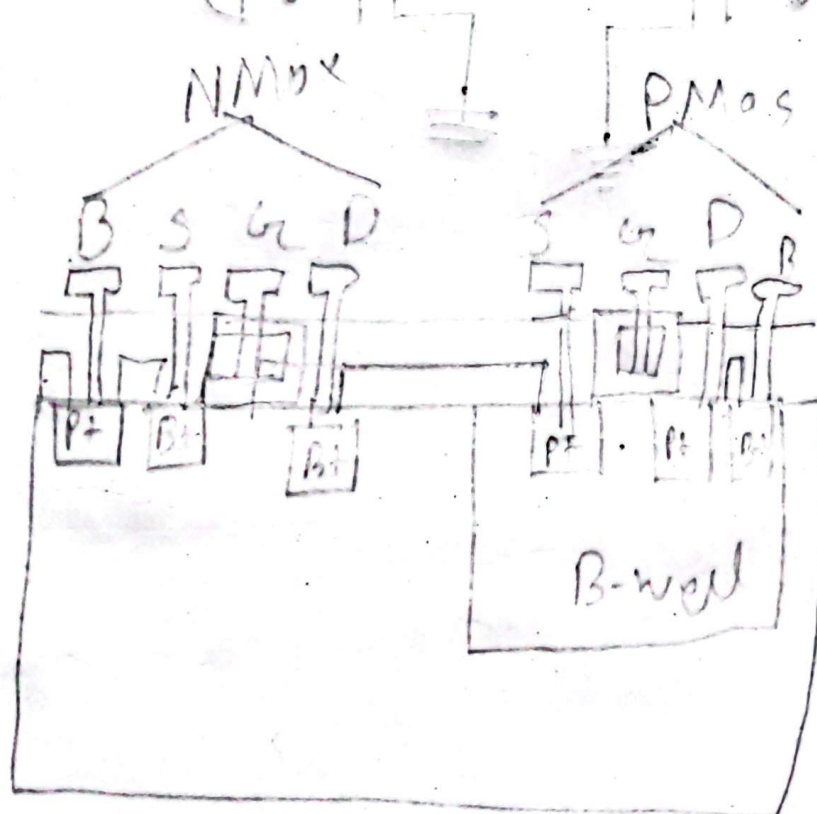
12) Masking and N-diffusion and oxide stripping



13) P-diffusion, thick field oxide and Metallization



14) excess metal Removal, Add terminals



4)

