Student Name - Blrupesh Bratt

subject - VLSI

- 1. Teransistor
- 2. Acceptou doped
- 3. p type substrate of moderate deping level
- 4. Conducting channel
- 5. source to drain
- 6 Vds desseer than Vgs Vx
- 7 decreases
- 8. resistor
- 9. open, cloud
- 10. n Mos depletion

Ans 11) operating modes of MOS -

- 1. Out off A MOS device is in cutt off when two amount of current flows through it. Here the device functions as a basic runtch.
- 2. Saturation In this augion, the denier will have their drain region to some account value as constant neithout considering the enhancement in the voltage across the drain to tome.
- 3. Linear/Ohmic_ It is the seegion neherl the account across the segion drain to sounce terminal enhances with the Envenment in voltage across the drain to securce path.

To (mt)

Notionic | Saturation | saturation | cut off suggion | Vigs

Page No. Ars 12) Channel dength modulation (CLM) as an affect in field effect iteausisters, a shouldning of the length of the inverted channel region with increase in drain book for large durain biases, the result of CLM is an increase in current with drain bias and reduction of output evenistance saturation 1983 Lineage region Deción neglectry chamel vasz longer modulation (2 = 0) relevent Derain vollage Jo = Lun Con W (Vas - VIII)