Q1. Compared the different line codes with respect to the tandwiath they use.

-> manchester (ode our considéred voorest line coole as fact as landwidth is considered since they have the highest bandwidth. RZ bipday also has very large bandwidth. NRZ polar is the considered best line code considering bindwiden simo They have half the bandwidth of Machester. Delay line code have the lowest bandwidth

Q2. Compare the different line codes with respect to the Candwidth they ust probability of error they may

-) AMI is best line code in case of everor in sham as they have the ability top detect evivor (ruolation of sules). Polay & Bipolay signals have a limited bruos detecting ability. Unipolar & manhester have zeros evros dection Capaleility =

03. Compare the different line codes with respect to the ix power they require for transmission.

-> IVRZ Polan has the highest DC component among line codes. NRZ unipolar also has high DC

component - RZ line codes have significantly low De power. Manchester codes Bare O'De Dower

component.

- Oy. Compare the different line codes with respect to the self-clacking abellity.
- -) Manchester line code how the highest selfaboling ability among line code . RZ bipolar also has selfclocking ability. NRZ have no selfclocking ability.
- 05. Site a specific application of line codes.
 - -> NRZ encoding 5- RS2 32 based Protocols.

 NRZ coding is most commonly used coding scheme & the reference for all coding schemes
 - -> RZ woding is used Primaruly in optical transmission system because it minimizes power consumption & the effects of system elispersion on optical signel distortion
- -> Manchesters encoding ? Ethernet relicordes, embedded clack application because it forces at least once transition per bit
- -> Defferential manchester encocling: taken sing nelioorks
- -) Modified AMI's WAN.