Ans to the G NO-1 Course Code = SWE 321

One goal in Jata Communication s is to increase the data note while decreasing the signal mate.

Data rate is the number of data elements sent in 15, it also known as bit note.

Signal rate is the number of signal elements sent inis, also known as baud nate.

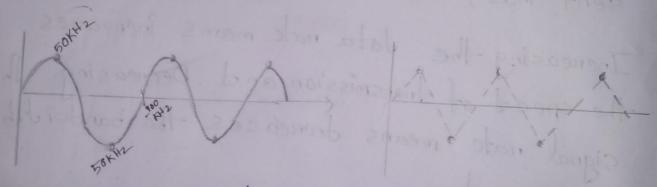
Increasing the data rate means increases the speed of transmission and Decreasing the signal mate means decreases the bandwidth Requirement

for Example: We need to carry morie people in feewer vehicles to prevent traffic jams. We have a Limited bandwidth in our transportation system.

Ans to the Q NO-2

According to the Nyquist theorem, The highest frequency (1) of a signal is half of the sampling nate (1s), Is = 2f

It signal frequency(+) is 50 KHz then Samplingths)
Rate will be 100 KHz.



Nyquist rate sampling +s=2+

Ans to the QNO-3

PSK is more superior Than FSK and ASK Because Of:-

- L'I) PSK is less susceptible to ennons than ASK
- ii) PSK is superior to FSK because do not need two carnier signals
- m) More efficient use of bandwidth (higher datarrate) are possible, No bandwidth Limitation

