Txd 20 fixed points 4=14 5 bits at recewer Lis correctly decoded, can you tell the exact value?

agenda for any sampling powers / way: - rate or provodure such define the original analog signal. one-many mapping should not be the.

It us take a wibitrary signal g(t) of finite

energy, 'specified for all time'

physically

realizable

instant aneously & at a uniform reate, instantaneously & at a uniform rate, once every T_s seconds - $\{g(nT_s)\}$, $n \in set$ of integers (Z)Ts: sampling period - why servod-why

as you get infinite seq. of samples spaced

To see. apart

$$f_{S} = 1|T_{S} := \text{ Sampling reate} - \text{ no. of Samples you get every Second.}$$

$$g_{S}(t) \triangleq \text{ most ant anneously Sampled Signal}$$

$$g_{S}(t) = \sum_{n=-\infty}^{\infty} g(nT_{S}) \, \delta(t-nT_{S})$$

$$g_{S}(t) \times \sum_{n=-\infty}^{\infty} \delta(t-nT_{S})$$

95(t) = "ideal sampled signal 981t)= = g(nTs) &(t-nTs) Now, from S&S gs(Ts) = = = g(nTs) s(Ts-+ g(0) &(Ts) + g(Ts) &(Ts-Ts)) $g(-\tau_s)$ & $g_{\delta}(t) = g(t) \times$ $(T_s + T_s)$ ≥ S(t-nTs) + g (2Ts) 8 (Ts-2Ts) ... FT (98(H)) = FT (8(H)) $\delta(0) = \infty$ FT Z 8(t-nts) > we will discurs Ts m = -00 G(f-mfs) · 15 = 1/TE