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SnS
Q.4
Q_{s-1}
O To convert continueus time signal into descrete-time signal
to process a discrete time signal using descrete + time
system and convert back to continuous time -
② Sampling rate should be slow/tower high
$2 \pm 2 \omega M$
The overlaping of the reconstruded signal when
the following conditions becomes falls.
$w_s > 2w_M$
aliasing

Ws = 10000 A as ws > 2wm LOODOT S WM 3000 A > wm when um > 5000# for X(jw) will be zero