$T = \frac{1}{F}$ = 2.5 × 10⁻⁴ ii) -2p = 2 ton (21/ x/000x T) 2.5×10-4 (2000 1T x2.5 ×10-4) -ap = 8000 rad/s. AS (= 2 + top - (21T 350 × 2.5 × 10-4) -25 = 2256 radls. $N = \log \left(\frac{10^{(0.145)} - 1}{10^{(0.145)} - 1} \right) 0.20,01$ 10 9 (D 5) N = 0.47 = 087 = 1 $\frac{1}{1} + \frac{1}{1} + \frac{1}{8000} = \frac{1}{5} + \frac{1}{8000}$ H(S) = 5 5+8000

Vi) H(z)=H(s) 8000 (1-27) + 8000 (1+27) 8000 (1-27) 16000 y(n) = 0.5 3c(n) -0.5 &(n-1)

(a) For
$$fs = 5000$$

i) $T = \frac{1}{fs} = \frac{1}{s} = \frac{1}{2x10^{-4}}$

For $fs = 5000$

ii) $T = \frac{1}{fs} = \frac{1}{s} = \frac{1}{2x10^{-4}}$
 $2x10^{-4}$
 $2x10^{-4}$

W(U)
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= 0.579 (1-24)
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