EHB 351 FINAL

SORU-3

Alp Alport 040150028

11.00

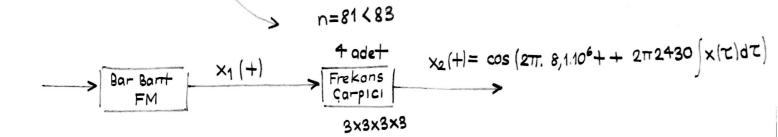
A.
$$2\pi Af = 2\pi 30$$
 fm = 10kHz

$$fc = 10^{5}$$

$$n = \frac{\Delta f'}{\Delta f} = 486 = 2.3^{5}$$

$$n < \frac{fc - 2fm}{2\Delta f} - \frac{1}{2}$$

$$n < 83 \text{ Olmali$$



$$x_{4}(+) = \frac{1}{2} \cos \left(2\pi 6.81.10^{5} + 2\pi .2430.6 \right) x(t)dt$$

$$+ \frac{1}{2} \cos \left(2\pi .2430.6 . \right) x(t)dt$$

$$x_{c}(+) = \frac{1}{2} \cos \left(2\pi .3.10^{6} + 2\pi .14.58.10^{3} x(t)dt \right)$$

C.
$$2(f_{\text{min}}\Delta f') = 2(10^3 + 14,58.10^8) = 31,16 \text{ kHz}$$

cos (21181.105+)