



Singe, here the even number of inputs are high therefore F = 1 Honce, alternative (D) is the correct choice 13. (B) The given circuit 40 - 10 A10-C YS To device From flaure we can write Ass Ass Ass Ass Ass Ass Ass As As Applied inputs in order to reake the chip From the oliven circuit we conclude that in order to make the chip enable the output of the five inputs NAND gate must be zero. Therefore in order to make the cultural of NAND gate zero all the inputs should be high. Thus, A<sub>11</sub> should be high (a. 1 A<sub>12</sub> should be low i.e. 0 As should be high i.e. 1 Au should be low i.e. o Are should be low (e. 0) Also in order to get output at pin no. 5 in a 3 to 8 december CBA must be 101 /.e. 5 in decimal Therefore, range can be calculated as follows-Mis Authorates Ann Anna Anthon Anna Anna Anna Anna Anna Anna wife in main/26 So minimum value = 2000 u So, maximum value = 2 DEFH Therefore, the range → 2000 - 2 DFF  $X(z) = 5z^2 + 4z^{-1} + 3$ 

z(m) = 56(n+2) + 36(n) + 46(n-1)

When A = 0.8=0.C=1

then Y1 = 0, Y2 = 1, C = 1

output - halel - hatel = 8(n-1) + 8(n-2) = Mq-2-1) = Mq-31 16. (C) For an N-point FFT algorithm with N = 2°. In place computation requires storage of only 2N node data 17, IBI The given system The given austern can be easily solve by using signal flow

 $b_1(n) = b(n-1) b_2(n) = b(n-2)$ 

15, (C) - (A)(e)

graph as shown below From above four

Y(s) = 1 ternative (B) is the o output y(f) = cos (2/ - 1)  $x(t) = P \cos \left(2t - \frac{\pi}{2}\right)$ 

Y(0) = 1 cos 21 + 13 sin 21 5 V3 2

> X(s) =\_ s+2√3 \_ s

(0+2√3) (0 a m) = dez2 + 2√3e + ps + 2√3p = 4ss Equating coefficient both side of a 2√3+n = 40

30 = 20%











