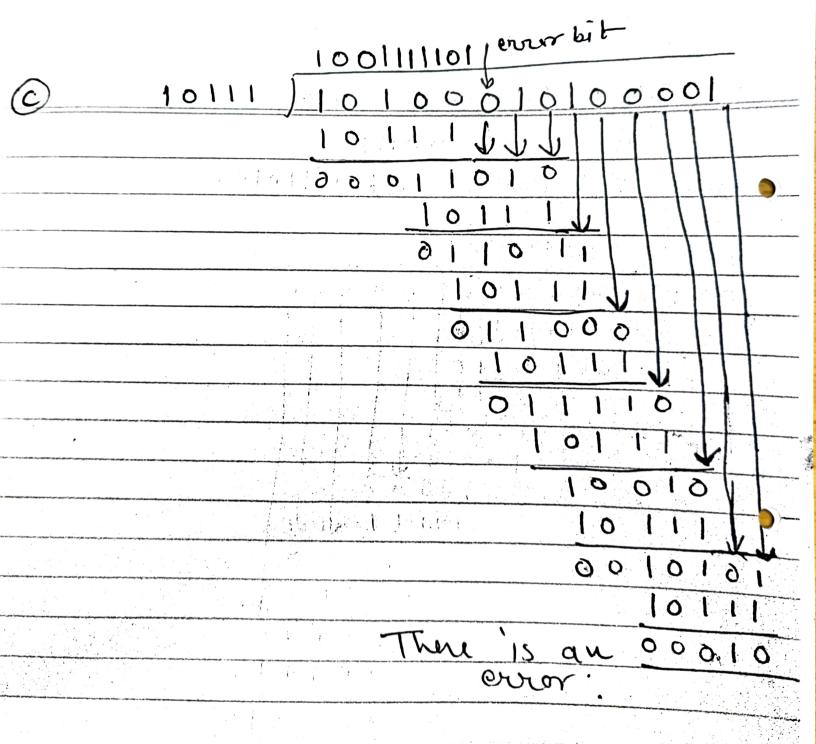
Ans. (a) Dataword - 1010011010
Dune 07 - 10111
Augmmantael Word - 1010011010000
1001101011
10111) 10100 1101 00 000
10111
0001.1.10
010011
10-11-10-1
0010000
10111 1100
10111
10110
10111
00001
Generated code Word-10100110100001
generally local to
(100 10 0 10
(b) No error Checking. 100 10 0 10 0 0 0
101111111
00011110
101110
1011111
0010000
101100
and the state of t
1.0111
1011
X No comos
found



Ans 2 @ Data word -718-127-1215-12-12 Divises 23+ 24/ Augmented D. co -> x11-px10-px2+x1-1x3 スタースナース6ーカンーアルシーアル 2"+ x10 + x8 + x1+x3 12/10 + 21 9 +214-123 28 + 28 + 29 + 24 + 23 127176 ly a pe nyen3 Code Word o キスタヤストスチス n8+ n7+25-+21 +213 +2 evered Data ZIO PNSPX7 スタイスナーアペース3+2 18 px6 px5 27 きれい もれいれがられるそれ メヤナ リヤーハナ N123-12

A > 01000111 FLAG 0111110 Ans 3 B> 11100011 ESC+ 11100000 Show AB FING ESC with Bit stuffing 6/1/10/010001/11/6/6001/1/10 (0000) 111110,0000 11111 Any Bit String > what will be transmitted signal after Bit Stuffing. CHAG CILLOTHINGOLITION CLAG Anso Channel Data Rate - 4 Kbps.

tps - 20 ms

frame Range for Stop & wait for at least 50%.

efficiency. Where 1 - Frame length R- channel capacity (4 Kbps) 0.5 = 1/4+2420

0.5= L
L+ 160
L=0.5×160/0.5 => 160 bits
ANG POOD WILL SEO - O
B miles C
Stiding window stop 1 Wait W=3
$\omega=3$
from A to B>
Propagation of = Trane + 2 Tps
T. = 1000
$T_1 = \frac{1000}{100 \text{ Kbps}} + 2x20 \text{ ms.} = 10 \text{ ms} + 40 \text{ ms}$
$T_1 = 50 \text{ms}.$
In every 50 ms 3- frames of 1000 hit each to
From B to C > Buffer of node B will floded because
of the previous link
T2 = Thomp 2 + 2 Tps2
= L/R2 + 2x5ms.
$T_{2} = \frac{1000}{R_{2}} + 10 \text{ ms}$
To T2 time I frame Send from B to C. To Send 3- Frame we require - 372 time. 372 = 50 ms (Not floodry B)
3- Frame we require - 310 time.
3To= Soms (Not Hooday o)
(Tot flooding b)
$50 = 3 \left(\frac{1000}{R} , \frac{1}{10} \right)$
150 102 1000 - 20 1000
$(\frac{50}{3} \cdot 10) = \frac{1000}{120} \Rightarrow \frac{30}{3} = \frac{1000}{R_2}$