

CSF320

Special Assessment

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Ans to the Q no. 1

(a) Frame size = $4 \times (4 \times 8)$
 $= 128 \text{ bits}$

(b) Output frame rate = $\frac{5.6 \times 10^8}{32} = 175,000,000 \text{ fps}$

(c) Output data rate = $(5.6 \times 10^8) \times 4 \times 8$
 $= 1.792 \times 10^{10} \text{ bps}$

(d) Input bit duration = $\frac{1}{5.6 \times 10^8 \times 8} = 2.232 \times 10^{-10} \text{ s}$

(e) Output bit duration = $\frac{2.232 \times 10^{-10}}{4} = 5.580 \times 10^{-11} \text{ s}$

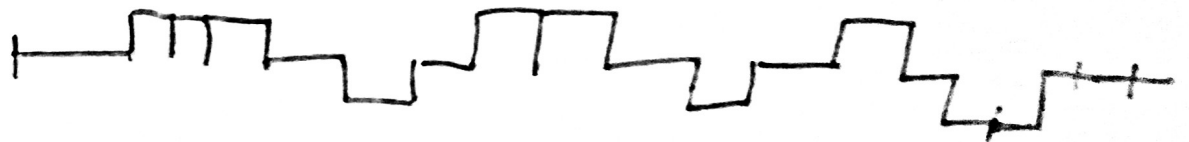
(f) Output slot duration = Output bit duration
 $= 5.580 \times 10^{-11}$

20i

1001	0111	1111	1010
↓	↓	↓	↓
01001	11101	01111	10100

0100111101011110100

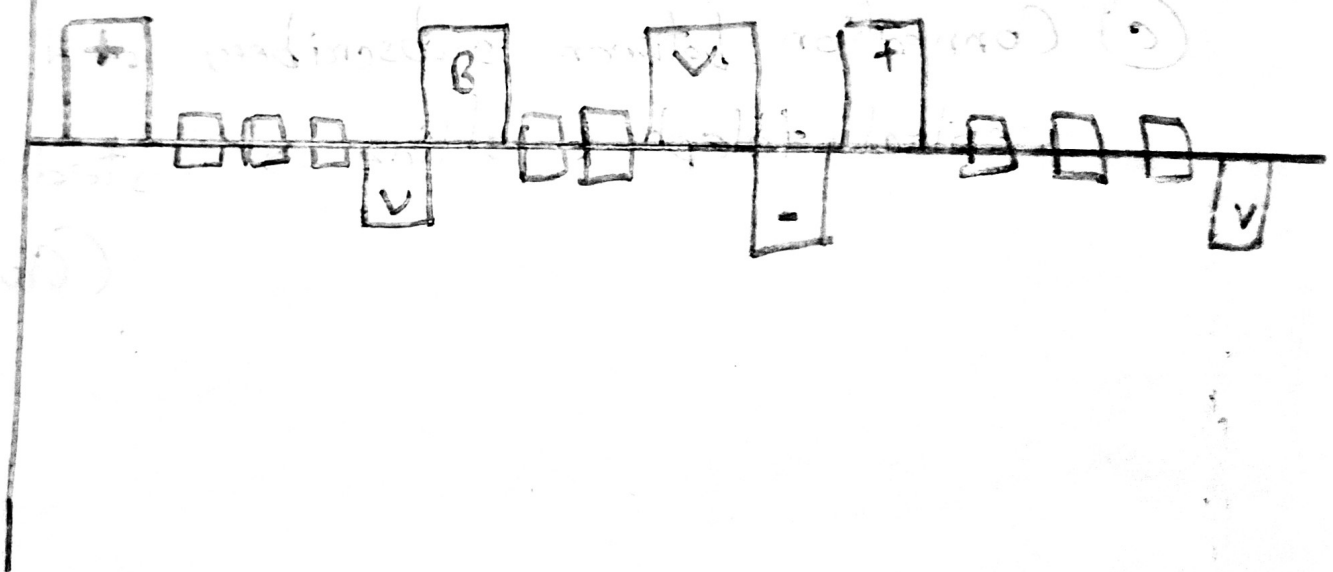
MLT-3



Ans to the Q no. 2

2(i)

1 0 0 0 0 0 0 0 1 0 0 0 0



Ans to the Q no. 3

- ① Cordless Phones → Radio waves (Unguided)
- ② 1000 Base-X Network
→ Optical Fiber (Guided)
- ③ Connection between subscribers and
central telephone office → Twisted Pair Cable
(Guided)