01

CT-2

ID - 18101033
Sec - A
Subject - CSE 303

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1. NO. Ques. Ans

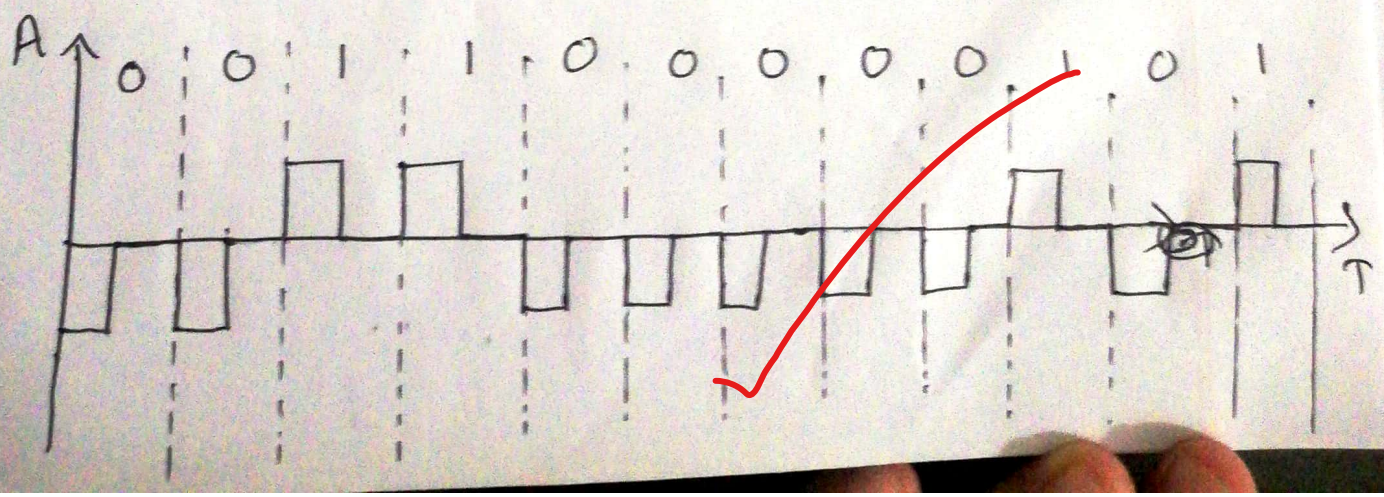
Birthday Date = 14/02/1998

$(1402)_{10} = (00110000010 1)_2$

ID - ~~1810~~ 33 % 3 = 0

a) RZ

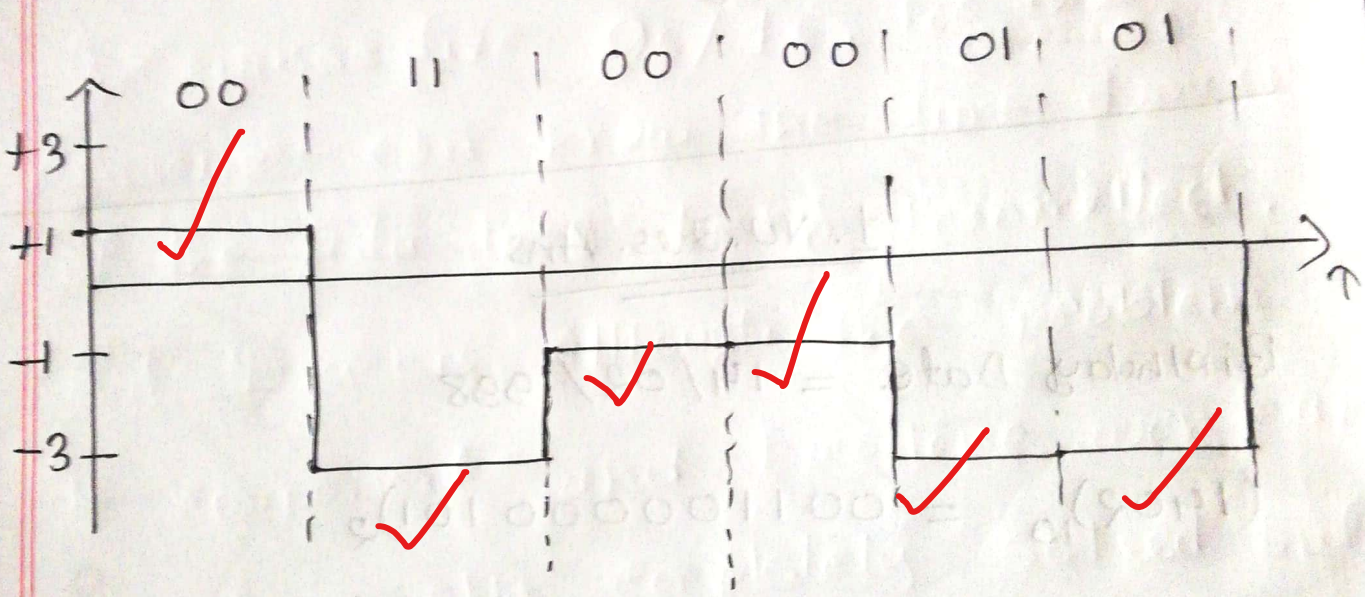
00110000010 1



o2

b) 2B1Q

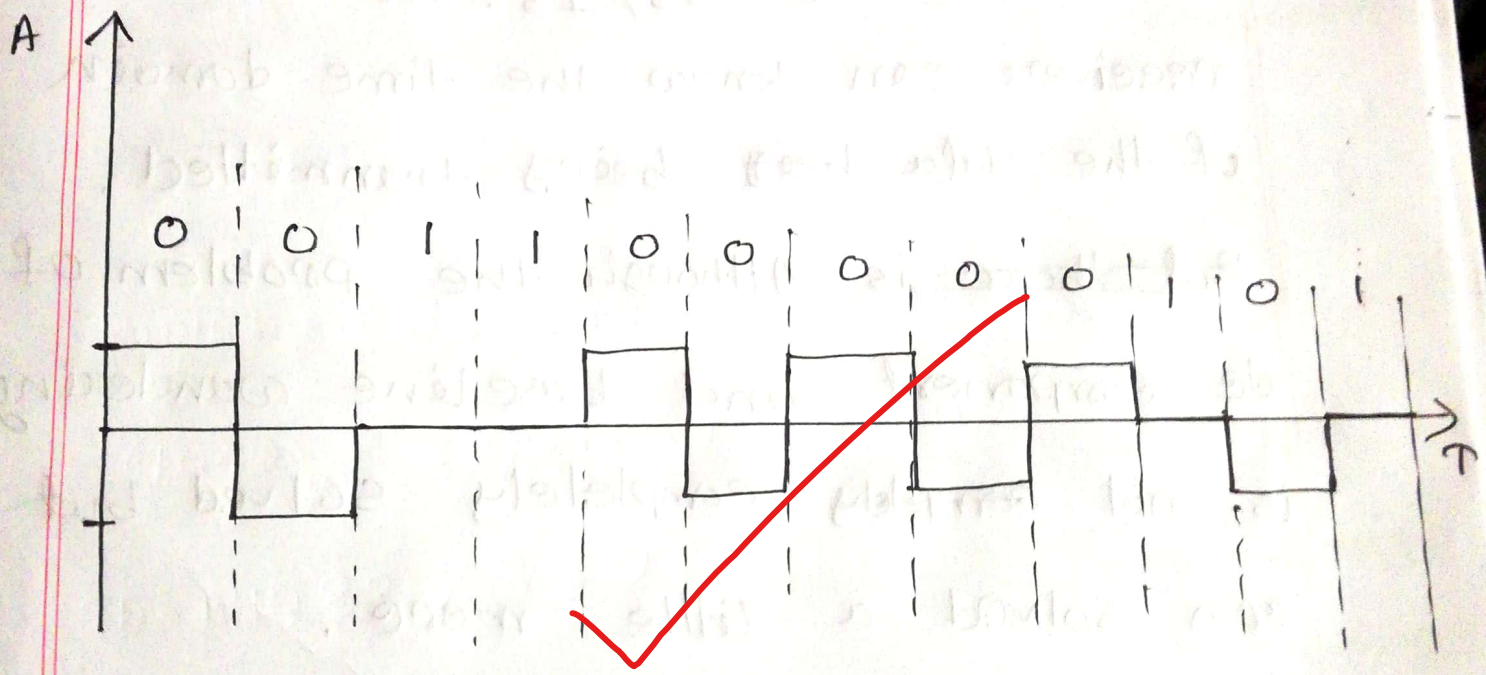
00 11 00 00 01 01



03

e) Pseudoternary

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



ou

b) ~~In RZ~~ RZ : In RZ for 1 the voltage is positive and for 0 bit the voltage is negative. RZ provides synchronization for consecutive 0s / 1s. For that receiver can know the time domain of the data ~~being~~ being tranmitted. ~~But there~~ is Although the problem of dc component and baseline wandering is not ~~completely~~ completely solved but can solved a little more.

2B1Q

There is no synchronization and The ~~de compo~~ base line wandering problem occurs for long string of Os and 1s. There is also DC component problem

Pseudoternary :-

There is no synchronization. For 1 bit The bit is encoded as a zero voltage and 0 bit is encoded as alternating positive and negative poltage. So there base line wandering and DC component problem is solve.

I think pseudoternary is better ~~and~~ among the three line coding.