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1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold over and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. **Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.**

[illegible]

03/100

$$\frac{128}{25} = 5.12$$

Q3

- ii. Figure 3(a) shows a bus transmission
- iii. This transmission method makes use of the two main data lines present. "SDA" and "SCL". These two lines have nodes ~~on~~ along them ~~to~~ transmit data to and from themselves. As shown in the figure, some nodes are suited for both input and output, whereas others are only ~~for~~ for output.
- v. This type of protocol may be used in a network such as a business. Ensuring some signals reach certain devices but others do not.

Q.5

i. "PRINT"

 $P = \cancel{001010100000}$  $R = 101\cancel{00}10$  $I = 01001011$  $N = 10010111$  $T = 01010100$ 

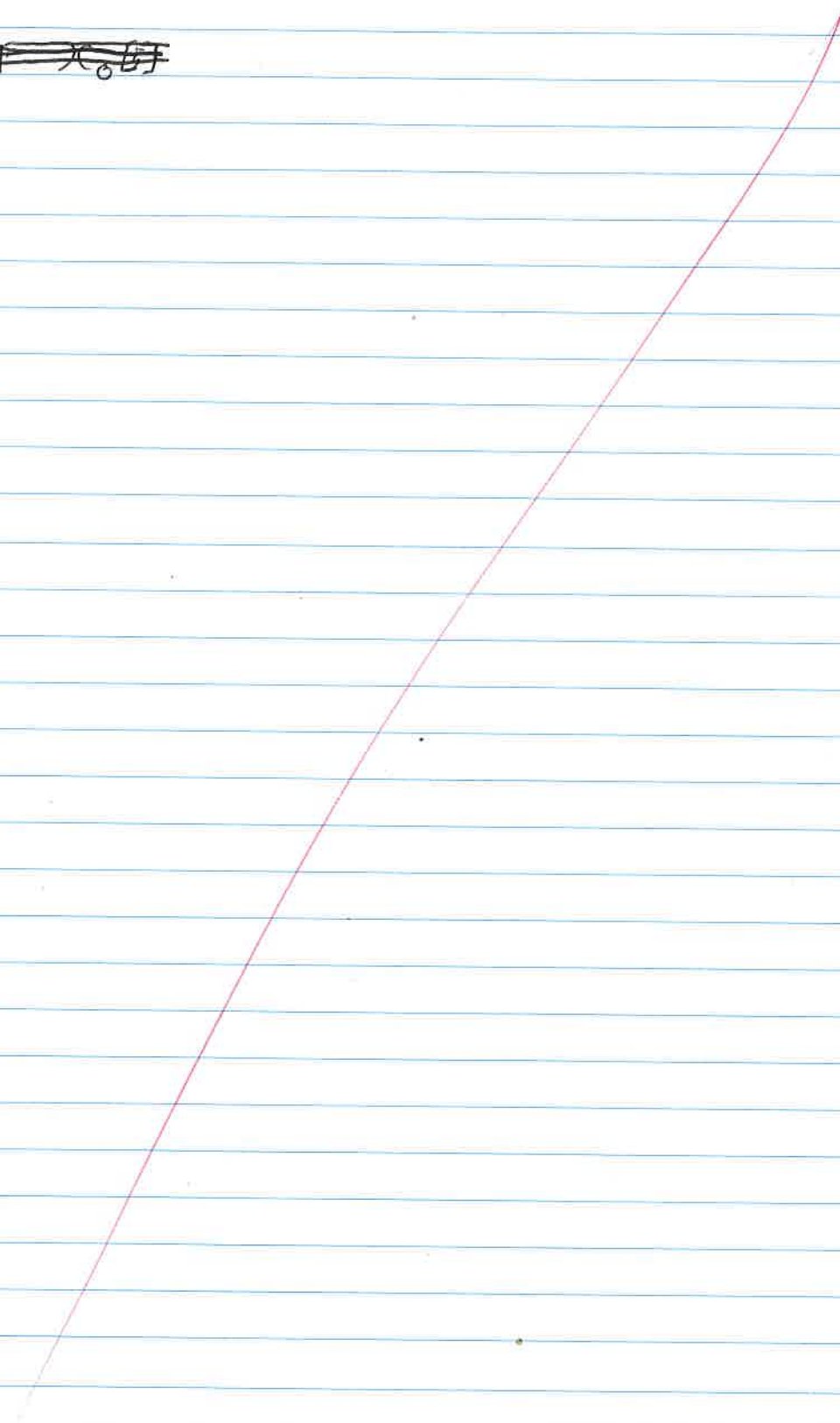
(2)

X

~~X [1] X [0]~~

~~X [1] X [0] = X [1]~~

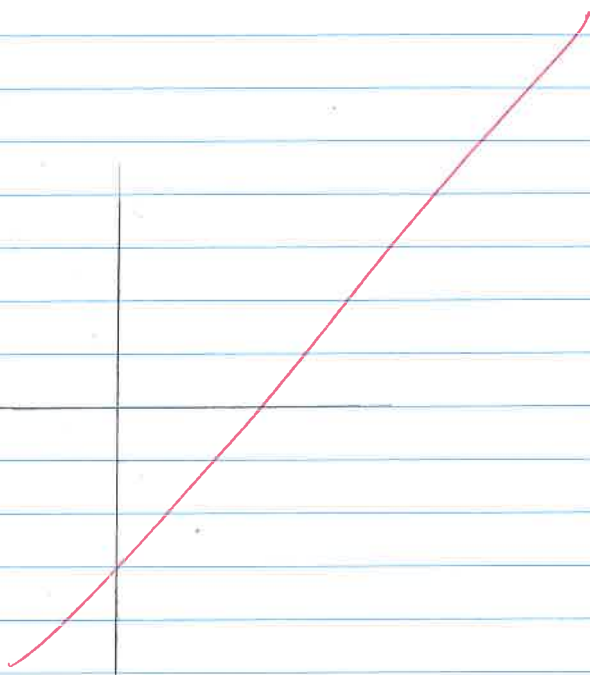
~~X [1] X [0]~~



Q.2.

$$\delta[n] = \begin{cases} 0, & n \neq 0 \\ 1, & n = 0 \end{cases}$$

$$u[t] = \begin{cases} 0, & t < 0 \\ 1, & t \geq 0 \end{cases}$$



C



Question No.

Examiner Only

