

NAME

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ID

14231

COURSE

COMPUTER COMMUNICATION  
NETWORK

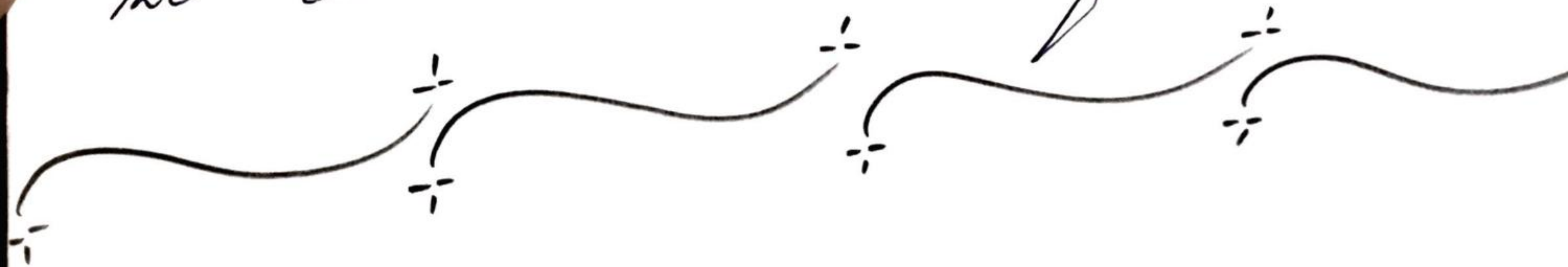
Q 1(a) :- Draw a hybrid topology with a star backbone and three ring networks also stimulate the topology in output.





Q2(a) :- Suppose a computer sends a frame to another . . . . . informed about the situation?

ANS:- If the corrupted destination address does not match any station address in the network, the packet is lost. If the corrupted destination address matches one of the stations, the frame is delivered to the wrong station. In this case, however, the error detection mechanism, available in the most data link protocols, will find the error and discard the frame.





Q3(a):- Suppose a computer sends a packet at the -----  
What will happen?

ANS:- Most protocols issue a special error message that is sent back to the source in this case.

Q4(a) Match the following to one or more layers of the OSI model.

- ANS:-
- a. Reliable process-to-process message delivery (Transport Layer (Layer 4))
  - b. Route selection (Network Layer (Layer 3))
  - c. Defines frames (Data Link Layer (Layer 2))
  - d. Provides user services such as e-mail and file transfer. (Application Layer (Layer 7))

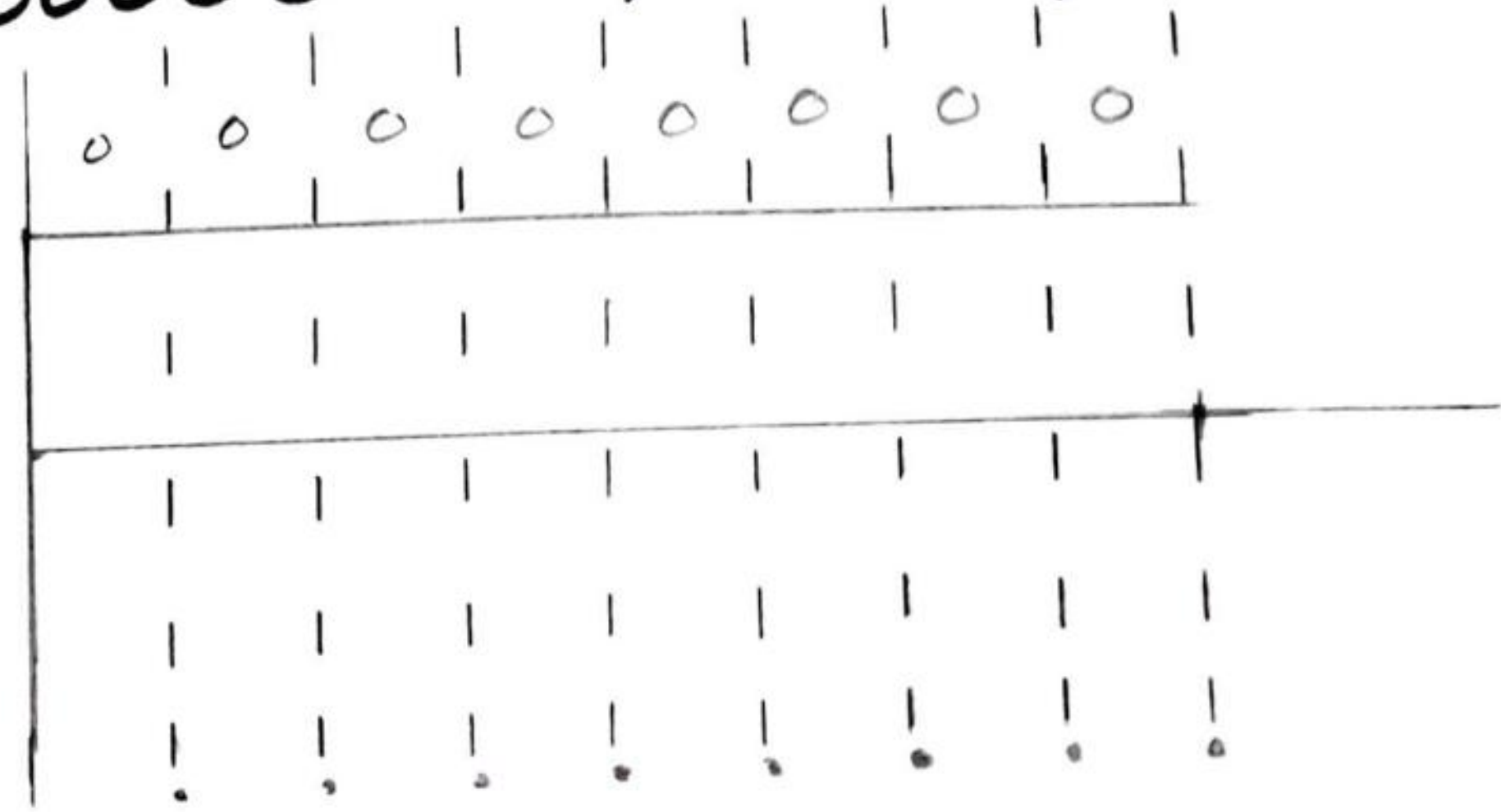


Q5 (a) Draw the graph of the NRZ-L, NRZ-I and

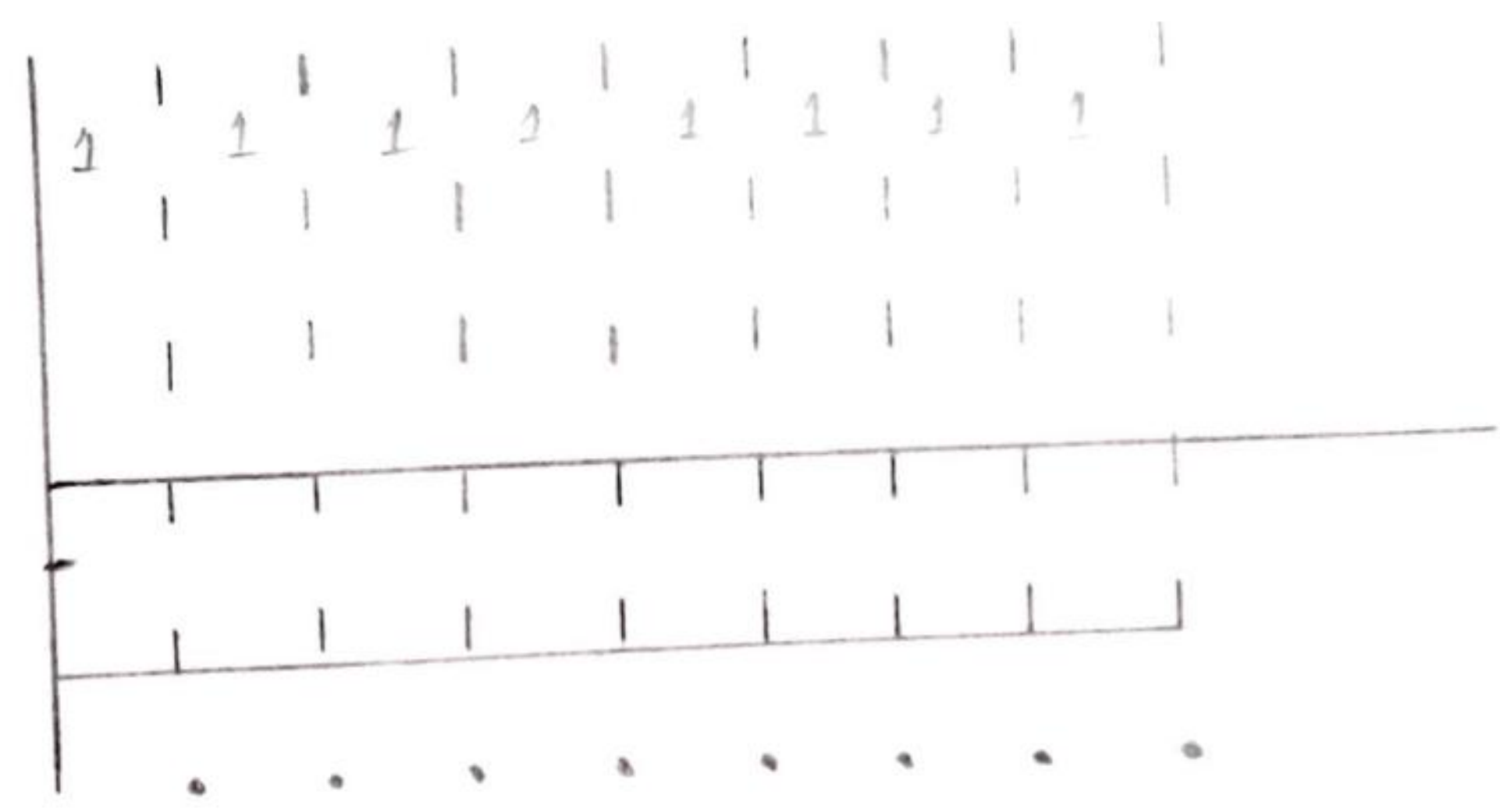
----- in the signal level.

Average number of changes =  $(0+0+8+4)/4 = 3$  for  $N=8$

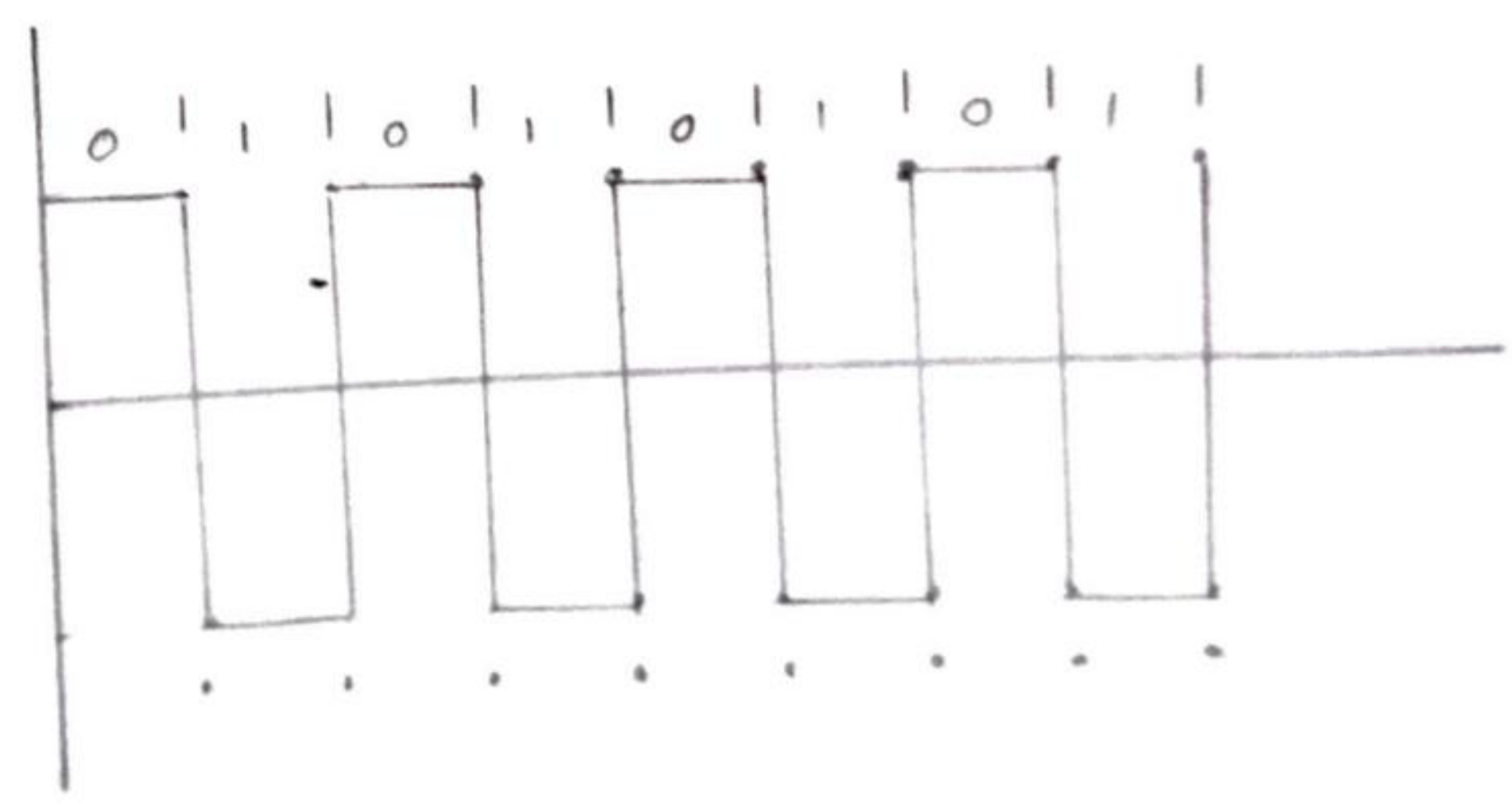
a. 00000000



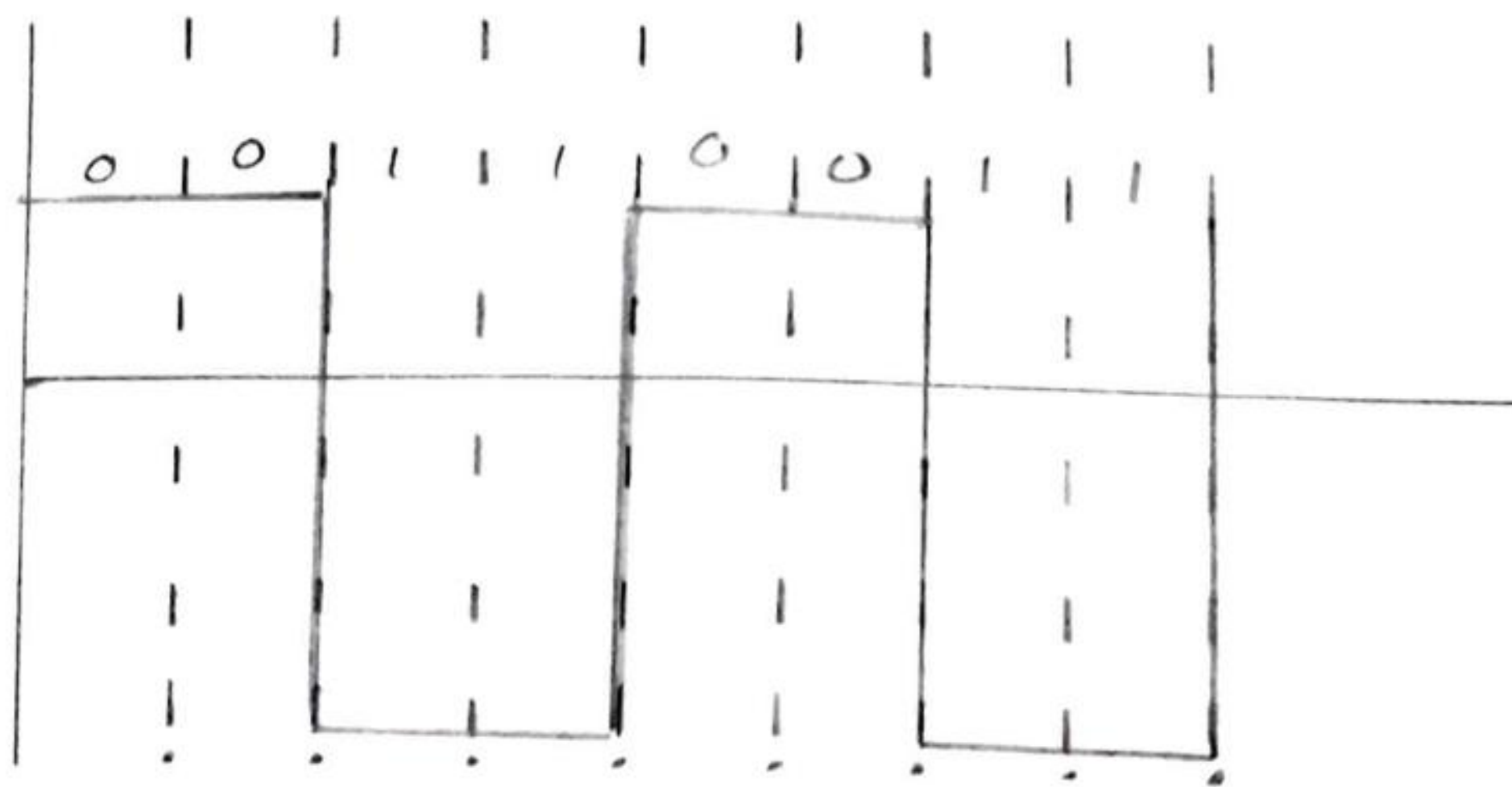
b. 11111111



c. 01010101

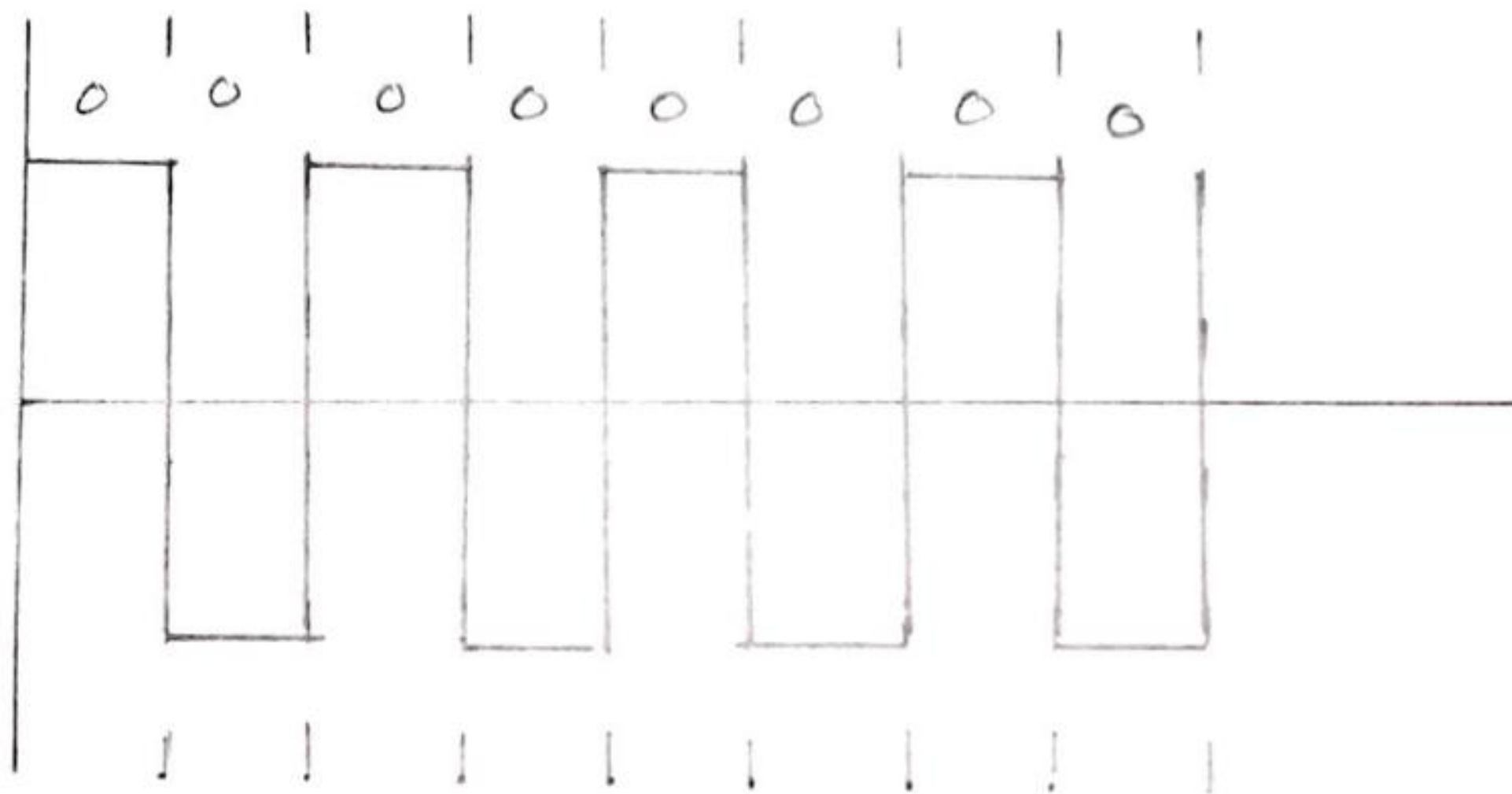


d) 00110011

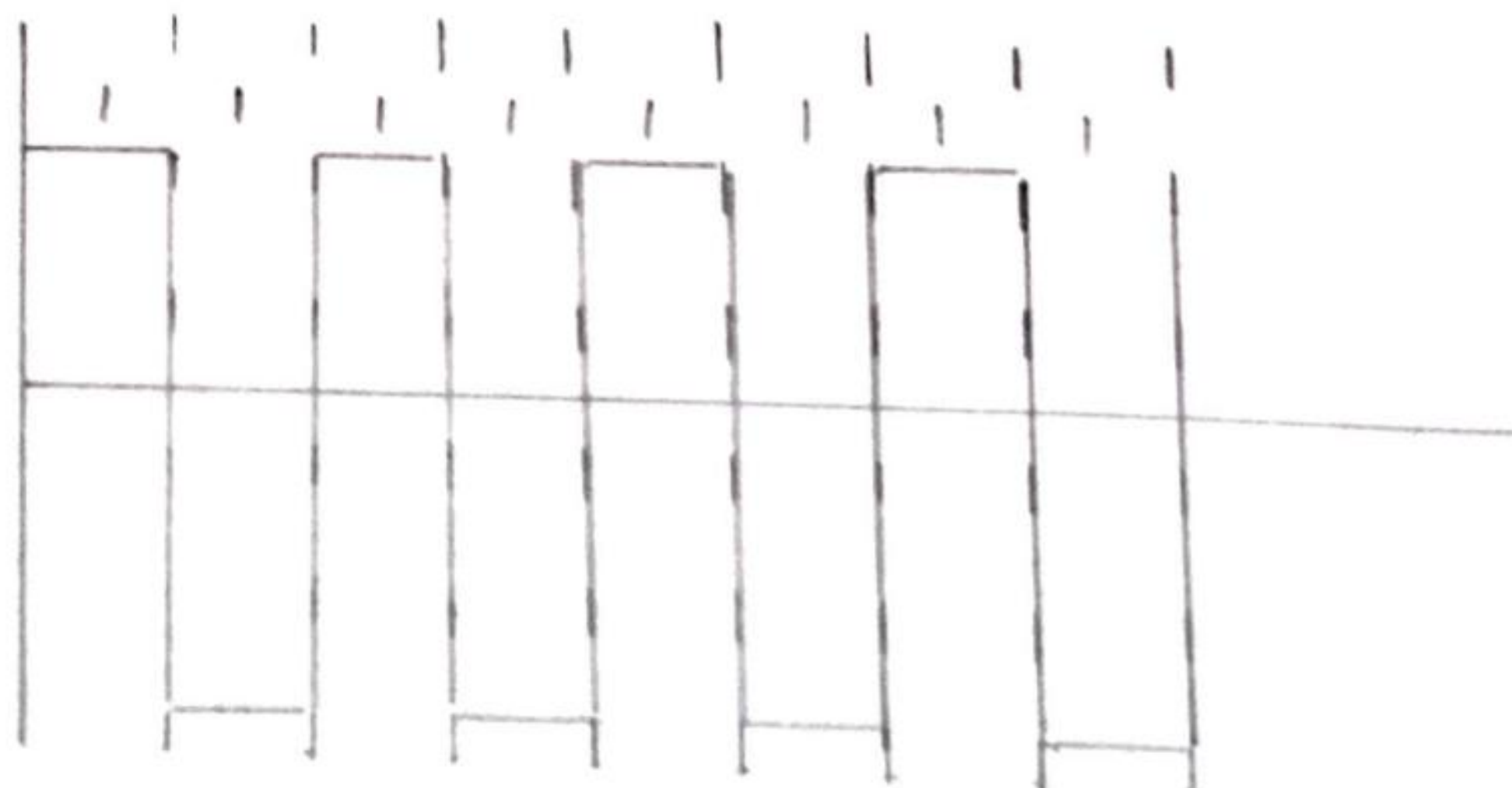


Manchester Scheme

a) 00000000

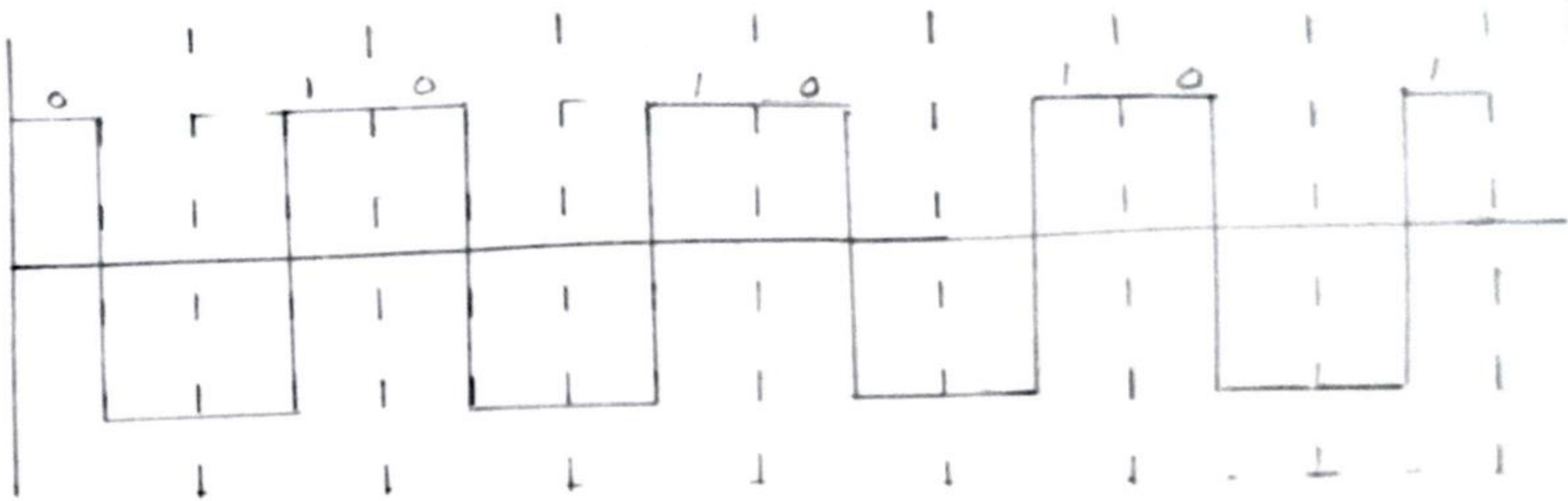


b) 11111111





c) 01010101



d) 00110011

