BOARD OF STUDIES Question 25 (a)(1)(ii) 45 = 00101101 = 20(iii) 1xx0 - 0111 (b) (i) A flip-flop is used to store things in new or their value is recurring and will remain the same with a new value is brought in (ii)B A \leq O 0 \bigcirc \bigcirc \bigcirc (0 (6 1

Start b(i) Yes No Yes 6=1 (=1 0 (=1 Stop (c) After the employee has had their finger sraned the information sent to the control computer would be duided into 3 section. The prit section is the hader information which alerts the central computer to the type of information that it has to proceed which in this case would be dupping a pigeprint. feer Following the header information would be

the data character which is the main point of the information vert. This would maily be the is age of the fingerprint. request for opinge the door The third scetion is the trader information which carries the information needed for the central computer to make the decision which would he the picture of the finge prit. On the return top the information is divided up into these same section addhas the the Head - Information would be the abotype telling what it is replying to. and The Lata cheractery this time would got the actual decision to open the door and the traile information is extra information such as who the enployee is.