

CSE 206 - July 2021  
Encoder & Decoder Online (B1)

**Implement the following function using two  $3 \times 8$  decoders and gates as required**

1.  $f = \sum (3,4,5,9)$
2.  $f = \pi(3,4,5,10,11)$
3.  $f = \sum (4,6,8,12)$
4.  $f = \pi(6,7,8,9)$
5.  $f = \sum (2,4,6,14)$

Divide your roll number by 5. The remainder is your assigned problem if the remainder is non-zero, otherwise problem 5 is.

Create a PDF document containing the truth table and necessary equations along with a hand-written circuit diagram. Submit the PDF file and the .circ file simulated in Logisim in a single zip file named by your student ID to Moodle.