

Assignment 3 Solution

Question 1

(a) 1101100

(0.3 mark)

(b) $r(x) = 1$

(0.3 mark)

(c) 110110010

(0.3 mark)

(d) Single errors can be detected. Because $g_2(x)$ has more than 1 term.

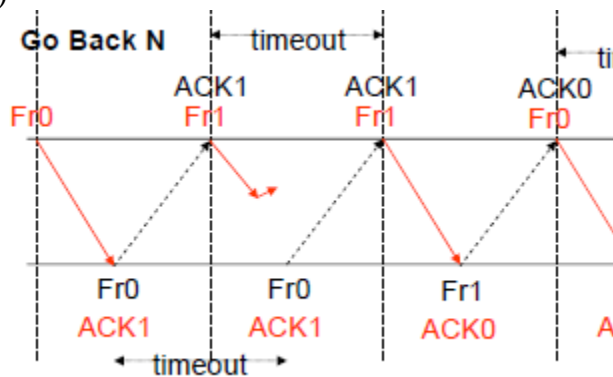
(0.3 mark)

(e) 1101101111

(0.3 mark)

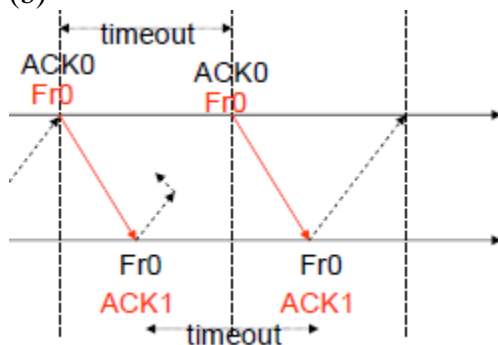
Question 2

(a)



(0.5 mark)

(b)



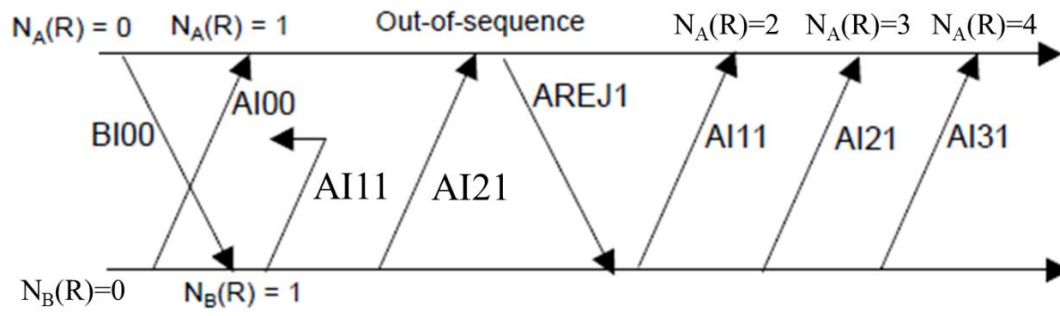
(0.5 mark)

Question 3

0.7352

(0.5 mark)

Question 4



(1 mark)