**CS 6097 Wireless and Mobile Networking**

**Homework No. 2 dated Wednesday September 10, 2014**

**Due on Wednesday September 17, 2014**

**P4.3** If the code generator polynomial is *g*(*x*) = 1 + *x*2 for a (5, 3) code. Find the linear block code generator matrix *G*.

**[Solution]**



Thus, 

**P4.6** Find the linear block code generator matrix *G*, if the code generator polynomial is *g*(*x*) = 1 + *x*2 + *x*3 for a (7, 4) code.

**[Solution]**



Thus,



**P4.7** Repeat Problem **P4.6** if *g*(*x*) = 1 + *x*3 for a (7, 4) code.

**[Solution]**



Thus,

