## EE5160: Error Control Coding Problem Set 3

1. Consider a binary linear block code with the following matrix as a generator matrix:

- a. Put the given generator matrix into systematic form and find all the codewords.
- b. Find the parity-check matrix of the code in systematic form. Determine the parity-check equations.
- c. What is the minimum distance of the code?
- d. Determine the weight distribution of the code.