

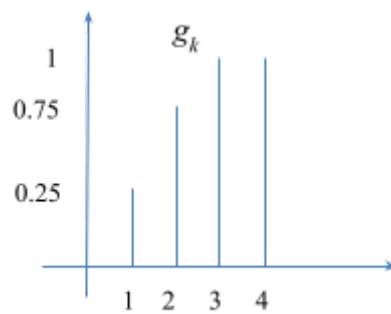
## Quiz I – CS A

### EE402 Digital Image Processing

**Instructions:** There is only 1 problem in this exam. You can use your notes and books in this exam.

Problem 1: A given image  $f$  has been equalized to produce  $G$ . Given below are  $g_k$  and  $G(\text{image})$  after equalization:

$$G(\text{image}) = \begin{bmatrix} 0.25 & 0.75 \\ 0.75 & 1 \end{bmatrix},$$



(a): From  $g_k$ , produce the pdf and histogram of  $f$ .

(b): Draw the original image  $f$