1.2. Basic Concepts in Probability.

Answers:

1. (i) B implies A   (ii) ϕ

2. (i) $\{g, bg, bbg, bbbg\}$ (ii) $\{1,2,3,4\}$

3. (i) $\{1,2,\dots,50\}$,   (ii) $\{(1,b),(2,b),(3,w),(4,w)\}$,

   (iii)$\{HHH, HHT, HTH, THH, TTH, THT, HTT, TTT\}$,

   (iv)$\{0,1,2,3,4\}$,   (v)$\{0,1,2,\dots,N\}$,

   (vi)$\{1,2,3,\dots\}$,   (vii)$\{x: 0 \leq x \leq 1\} = [0,1]$,

   (viii)$\{t = t \geq 0\} = [0, \infty)$,   (ix) $\{t: t \geq 0\} = [0, \infty)$,

   (x)$\{(x,y): 0 \leq x \leq 1, 0 \leq y \leq 1\}$.