2)
$$P(AID) = P(ADD) = \frac{0.002/(6.023) \cdot 0.007/667}{P(D)} = \frac{0.002/(6.023) \cdot 0.007/667}{P_{0} = 0.87}$$

PA = 0.294

4)
$$0.5 \cdot 0.002 = 0.294$$
 $P_A = 0.294$ $P_B = 0.588$ $0.02 \cdot 0.1 = 0.588$ $P_C = 0.118$

$$\frac{95}{100} \cdot \frac{94}{94} \cdot \frac{93}{98} \cdot \frac{92}{97} = 0.812$$

#4
$$\frac{10!}{(6-4)!} = \frac{10!}{6! 4!} = 2.10$$

$$\frac{3}{10} \cdot \frac{2}{9} \cdot \frac{2}{8} \cdot \frac{3}{7} = 0.007$$