Natural Computing, Assignment 3

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1

1.1

The probability that all three doctors give the correct answer is $0.8^3 = 0.512$.

The probability that this group makes the right decision based on majority voting is 0.512 + 0.384 = 0.896

1.2

The general formula is
$$\sum_{i=n/2}^n p^i * (1-p)^{n-i} * \binom{n}{i}$$