

..... 实 验 报 告 实 验 日 期 年 月 日

..... 系 专业 2114 年级 学生 庄任强 组别

$$2. (1) P(A) = \frac{5}{7} \times \frac{5}{7} = \frac{25}{49}$$

$$(2) P(B) = \frac{5}{7} \times \frac{2}{7} = \frac{10}{49}$$

$$(3) P(C) = \left(\frac{5}{7} \times \frac{2}{7}\right) \times 2 = \frac{20}{49}$$

$$(4) P(D) = \frac{5}{7}$$

$$3. (1) P(A) = \frac{C_3^1}{C_6^2} = \frac{1}{5}$$

$$(2) P(B) = \frac{C_2^1 C_4^1}{C_6^2} = \frac{2}{15}$$

$$9. P(A) = \frac{C_2^1 C_3^2}{C_5^3} = \frac{3}{5}$$

$$P(B) = \frac{C_2^2 C_3^1}{C_5^3} = \frac{3}{10}$$

$$P(C) = \frac{C_3^1 C_2^2}{C_5^3} = \frac{9}{10}$$

2.4

$$1. P(\bar{A}) = 1 - P(A) = 0.6$$

$$P(\bar{B}) = 1 - P(B) = 0.4$$

$$P(A \cup B) = P(A) + P(B) - P(AB) = 0.6$$

$$P(AB) = 0.6$$

$$P(\bar{B}A) = 0$$

$$P(\bar{A}B) = 0.4$$

$$P(\bar{A}\bar{B}) = 0.2$$

$$3. P(A-B) = P(A) - P(AB) = 0$$

$$P(A \cup B) = P(A) + P(B) - P(AB)$$

$$P(AB) = 0.4$$

$$P(B-A) = P(B) - P(AB)$$

\therefore

$$P(A+B) = 0.1$$

$$P(B-A) = 0.3$$