

#### §4.

4.1. a) Không gian mẫu có dạng

$$\Omega = \{ SSS, SSN, SNS, NSS, SNN, NSN, NNS, NNN \}.$$

b)  $A = \{ SSS, SNS, SSN, SNN \} ;$

$$B = \{ SSS, NNN \} ;$$

$$C = \{ SSN, SNS, NSS \} ;$$

$$D = \overline{\{ NNN \}} = \Omega \setminus \{ NNN \}.$$

4.2. a)  $\Omega = \{ S1, S2, S3, S4, S5, S6, N1, N2, N3, N4, N5, N6 \}.$

b)  $A = \{ S2, S4, S6 \} ;$

$$B = \{ N1, N3, N5 \} ;$$

$$C = \{ S6, N6 \}.$$

4.3. a)  $\Omega = \{ (i, j, k) \mid 1 \leq i, j, k \leq 6 \}$ , gồm các chỉnh hợp chập 3 của 6 (số chấm).

b)  $A = \{ (1, 1, 4), (1, 4, 1), (4, 1, 1), (1, 2, 3), (2, 1, 3), (1, 3, 2), (2, 3, 1), (3, 1, 2), (3, 2, 1), (2, 2, 2) \} ;$

$$B = \{ (2, 1, 1), (3, 1, 2), (3, 2, 1), (4, 1, 3), (4, 3, 1), (4, 2, 2), (5, 1, 4), (5, 4, 1), (5, 2, 3), (5, 3, 2), (6, 1, 5), (6, 5, 1), (6, 2, 4), (6, 4, 2), (6, 3, 3) \}.$$

4.4. a) Theo kí hiệu thì không gian mẫu là

$$\Omega = \{ A_1 A_2 A_3, \bar{A}_1 A_2 A_3, A_1 \bar{A}_2 A_3, A_1 A_2 \bar{A}_3, A_1 \bar{A}_2 \bar{A}_3, \bar{A}_1 A_2 \bar{A}_3, \bar{A}_1 \bar{A}_2 A_3, \bar{A}_1 \bar{A}_2 \bar{A}_3 \}.$$

b)  $A = \{ A_1 \bar{A}_2 \bar{A}_3, \bar{A}_1 A_2 \bar{A}_3, \bar{A}_1 \bar{A}_2 A_3 \},$

$$B = \{\bar{A}_1 A_2 A_3, A_1 \bar{A}_2 A_3, A_1 A_2 \bar{A}_3\},$$

$$C = B,$$

$$D = A \cup B \cup \{A_1 A_2 A_3\},$$

$$E = \{\bar{A}_1 \bar{A}_2 \bar{A}_3\} \cup A.$$