第十三章

1.
$$68.665 \le \mu \le 84.669 \, (\%)$$

2.
$$\mu = [95.233,110.517]$$

3.
$$\mu = [73.065, 79.823]$$

4.
$$\mu = [67.991, 84.897]$$

5.
$$1.40 \le \mu \le 2.24$$

9.
$$842.75 \le \mu \le 847.25$$

10.
$$0.165 \le p \le 0.335$$

11.
$$0.336 \le p \le 0.464$$

13. (1)0.38 (2)0.2849
$$\leq p \leq 0.4751$$
 (3)2263

15. (1)6.25 (2)
$$3.811 \le \sigma^2 \le 12.097$$
 (3) $1.952 \le \sigma \le 3.478$

16.

$$12.7346 \le \sigma^2 \le 36.8636$$

17.
$$1427.41 \le \mu_1 - \mu_2 \le 10772.59$$

18.
$$-0.738 \le \mu_1 - \mu_2 \le 7.238$$

$$(1)(\overline{x}_1 - \overline{x}_2) - 1.96\sqrt{\frac{1}{n_1} + \frac{3}{n_2}} \le \mu_1 - \mu_2 \le (\overline{x}_1 - \overline{x}_2) + 1.96\sqrt{\frac{1}{n_1} + \frac{3}{n_2}}$$

$$(2) n_1 = 18, n_2 = 32$$

20.
$$-6.296 \le \mu_d \le 0.740$$

21.
$$(1)-0.007 \le p_1 - p_2 \le 0.147$$

$$(2)-0.21 \le p_1 - p_3 \le -0.13$$

22.
$$0.386 \le \sigma^2 \le 2.723$$

23.
$$0.123 \le \frac{\sigma_1^2}{\sigma_2^2} \le 3.438$$

24.

$$(1) 0.364 \le \frac{\sigma_A^2}{\sigma_B^2} \le 2.840$$

$$(2) -5.394 \le \mu_A - \mu_B \le -1.406$$

$$(2)-5.394 \le \mu_{\scriptscriptstyle A} - \mu_{\scriptscriptstyle B} \le -1.406$$