

$$1) \left[ \bar{X} - z_{\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}, \bar{X} + z_{\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}} \right]$$

$$2) \left[ \bar{X} - t_{\frac{\alpha}{2}} \frac{S}{\sqrt{n}}, \bar{X} + t_{\frac{\alpha}{2}} \frac{S}{\sqrt{n}} \right]$$

$$3) \left[ \bar{X} - z_{\frac{\alpha}{2}} \frac{S}{\sqrt{n}}, \bar{X} + z_{\frac{\alpha}{2}} \frac{S}{\sqrt{n}} \right]$$

$$4) \left[ \bar{X}_1 - \bar{X}_2 - z_{\frac{\alpha}{2}} \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}, \bar{X}_1 - \bar{X}_2 + z_{\frac{\alpha}{2}} \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}} \right]$$

$$5) \left[ \bar{X}_1 - \bar{X}_2 - z_{\frac{\alpha}{2}} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}, \bar{X}_1 - \bar{X}_2 + z_{\frac{\alpha}{2}} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}} \right]$$

$$6) \bar{X}_1 - \bar{X}_2 - t_{\alpha/2, n_1+n_2-2} S_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}; \bar{X}_1 - \bar{X}_2 + t_{\alpha/2, n_1+n_2-2} S_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}$$

$$7) \left[ \bar{X}_1 - \bar{X}_2 - t_{\frac{\alpha}{2}, \nu} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}, \bar{X}_1 - \bar{X}_2 + t_{\frac{\alpha}{2}, \nu} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}} \right] \quad \nu = \frac{(S_1^2/n_1 + S_2^2/n_2)^2}{\frac{(S_1^2/n_1)^2}{n_1-1} + \frac{(S_2^2/n_2)^2}{n_2-1}}$$

$$8) \left[ \bar{D} - t_{\frac{\alpha}{2}, n-1} \frac{S_D}{\sqrt{n}}; \bar{D} + t_{\frac{\alpha}{2}, n-1} \frac{S_D}{\sqrt{n}} \right]$$

$$9) \left( \frac{(n-1)S^2}{\chi_{\frac{\alpha}{2}, n-1}^2}; \frac{(n-1)S^2}{\chi_{1-\frac{\alpha}{2}, n-1}^2} \right)$$

$$10) \left[ \frac{S_1^2}{S_2^2} f_{1-\frac{\alpha}{2}, n_2-1, n_1-1}; \frac{S_1^2}{S_2^2} f_{\frac{\alpha}{2}, n_2-1, n_1-1} \right]$$

$$11) \left[ \hat{P} - z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{P}(1-\hat{P})}{n}}, \hat{P} + z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{P}(1-\hat{P})}{n}} \right]$$

$$12) \left[ \hat{P}_1 - \hat{P}_2 - z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{P}_1(1-\hat{P}_1)}{n_1} + \frac{\hat{P}_2(1-\hat{P}_2)}{n_2}}; \hat{P}_1 - \hat{P}_2 + z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{P}_1(1-\hat{P}_1)}{n_1} + \frac{\hat{P}_2(1-\hat{P}_2)}{n_2}} \right]$$