## 中山大學本科生考试草稿纸如分子?

警示 《中山大学授予学士学位工作细则》第七条:"考试作弊者不授予学士学位。"

$$P.144.19 \int S_{m}^{5} \chi \cdot c_{0}^{2} \chi \, d\chi = \int S_{m}^{4} \chi \cdot c_{0}^{2} \chi \left(-olon \chi\right) = -\int (1-c_{0}^{2} \chi)^{2} \cdot c_{0}^{2} \chi \, dcn \chi$$

$$= -\int (1-2c_{0}^{2} \chi + c_{0}^{4} \chi) \cdot c_{0}^{2} \chi \, dcn \chi$$

$$= \int (-c_{0}^{6} \chi + 2c_{0}^{4} \chi - e_{0}^{2} \chi) \, dcn \chi$$

$$= -\frac{c_{0}^{2} \chi}{7} + \frac{2c_{0}^{5} \chi}{5} - \frac{c_{0}^{3} \chi}{3} + C.$$

 $P.144.26 \int \sin^6 x \, dx = -\int \sin^6 x \, d\cos x = -\int \sin^6 x \, dx = -\int$  $= -sm^{5}\chi \cdot cn\chi + 5 \int cs^{2}\chi \cdot sm^{6}\chi \, d\chi$ = - 3mx.cnx + 5 Sin4xdx - 5 Sm6xdx

$$\int Sm^{5} \chi d\chi = -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi + \frac{1}{6} \int Sm^{6} \chi d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi - \frac{1}{6} \int Sm^{3} \chi \cdot \Omega_{2} \chi + \frac{1}{6} \int C_{2} \chi \cdot 3 Sm^{2} \chi \cdot C_{3} \chi d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi - \frac{1}{6} \int Sm^{3} \chi \cdot \Omega_{2} \chi + \frac{1}{6} \int Sm^{3} \chi \cdot C_{3} \chi d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi - \frac{1}{6} Sm^{3} \chi \cdot \Omega_{2} \chi + \frac{1}{6} \int Sm^{3} \chi \cdot C_{3} \chi d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi - \frac{1}{6} Sm^{3} \chi \cdot \Omega_{2} \chi - \frac{1}{24} \int \frac{1 - \cos 4 \chi}{24} d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot \Omega_{1} \chi - \frac{1}{6} Sm^{3} \chi \cdot \Omega_{2} \chi - \frac{1}{16} \int \frac{1 - \cos 4 \chi}{24} d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot C_{1} \chi - \frac{1}{6} Sm^{3} \chi \cdot C_{2} \chi - \frac{1}{16} \int \frac{1 - \cos 4 \chi}{24} d\chi$$

$$= -\frac{1}{6} Sm^{5} \chi \cdot C_{1} \chi - \frac{1}{6} Sm^{3} \chi \cdot C_{2} \chi - \frac{1}{16} \int \frac{1 - \cos 4 \chi}{24} d\chi$$

P.144.21 Smx. Coxx dx  $=\int S_{11}^{2}\chi \cdot c_{2}^{2}\chi \cdot c_{2}^{2}\chi \cdot c_{3}^{2}\chi \,d\chi$  $=\frac{1}{4}\int \sin^2 2x \frac{1+\cos^2 x}{2} dx$  $=\frac{1}{8}\int \sin^2 2\chi \,d\chi + \frac{1}{16}\int \sin^2 2\chi \,d\sin 2\chi$  $=\frac{1}{8}\int \frac{1-c4x}{2}dx + \frac{1}{16} \cdot \frac{3\dot{m}^3 2x}{3} + C = \frac{x}{16} - \frac{3\dot{m}^4 x}{64} + \frac{1}{48}3\dot{m}^3 2x + C.$