NAME: SHAHZAIB KHAN *ROLL NO: 19K-0273* *SECTION: BCS-3G*

ASSIGNMENT#2

Ex 4.44:

$б_x^2 = 0.535$

$б_x = 0.732$

$б_y^2 = 0.429$

$б_y = 0.655$

$б_{xy} = -0.214$

$Þ_{xy} = -0.4472$

Ex 4.45:

$б_x = 0.6689$

$б_y = 1.4$

$б_{xy} = 0.01$

$Þ_{xy} = 0.01067$

Ex 4.46:

G(x)=$k(20x^2+\frac{98000}{3})$

H(y)=$k(6y^2+\frac{25000}{3}-9000-30y^2)$

μ_x=40.81 μ_y=40.81

$б_{xy}$ = -0.6642

Ex 4.47:

H(y)=$\frac{2}{3}(\frac{1}{2}+2y)$ G(x)=$\frac{2}{3}(1+x)$

$\mu_x=\frac{5}{9}$

$\mu_y=\frac{11}{18}$

$б_x$ = 0.283

$б_y$ = 0.2664

$б_{xy}=\frac{-1}{162}$

$Þ_{xy}$ = -0.0818