

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Regression Analysis

Subject Code : CCN2313

Session : Semester One, 2017/18

Numerical Answers

Question 1

- (a) $\hat{y} = 18.5595 + 0.5309x$
(b) 2.3245
(d)(ii) (-0.0438, -0.0214)

Question 2

- (a)(i) $\hat{\beta}_0 \approx 0.1157, \hat{\beta}_1 \approx 0.8926, \text{ and } \hat{\beta}_3 \approx 0.1464$
(a)(ii) 0.8970

Question 3

- (b) 0.29

Question 4

- (c)(ii) (0.4392, 20.0948)

Question 5

- (b)(ii) 1.1333
(b)(iii) 0.5490