

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Statistics for Business II **Subject Code** : CCN2244

Session : Semester One, 2013/14

Numerical Answers

Question 1 (a) 17.31615
Question 1 (b) (i) 0.1112 (ii) 0.0142
Question 1 (c) 0.9018
Question 2 (b) $t = 1.9720$
Question 2 (c) 16.37% and 83.63%
Question 3 (b) $p\text{-value} = 0.0768$
Question 3 (c) $\chi_{Cal}^2 = 13.7877$
Question 4 (a) $\chi_{Cal}^2 = 10.57$
Question 4 (b) $\chi_{Cal}^2 = 2.33$

Question 4(c) 0.1259 to 0.2933
Question 5 (a) $p - value = 0.2084$
Question 5 (b) $t_{Cal} = 0.5423$
Question 5 (c) 1.4715 to 12.5285
Question 6 (a) (i) $F_{Cal} = 1.94$ (ii) $12.2432 < \sigma < 21.8444$
Question 6 (b) $2195.2037 < N\mu < 2804.4963$