

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Introduction to Probability and
Statistics

Subject Code : CCN1050

Session : Semester One, 2018/19

Numerical Answers

Question B1

- (a)(i) 18.8
- (a)(ii) 65.45
- (a)(iii) 56.05
- (b)(i) 6
- (b)(ii) 8
- (b)(iii) 33

Question B2

- (a) 9,979,200
- (b)(i) 308,915,776
- (b)(ii) 165,765,600
- (c) 241,920
- (d) 32.02 to 57.98

Question B3

- (a) 43.196
- (b) 44.9
- (c) 0.0051
- (d) $a = 2.5$ and $b = 8.5$; Required probability = 0.75

Question B4

- (a)(i) 4.52
- (a)(ii) 0.185
- (b)(i) 0.0693
- (b)(ii) 0.3036
- (b)(iii) 0.4554

Question C1

- (a)(i) 0.3
- (a)(ii) 0.232
- (b)(i) 0.352
- (b)(ii) 0.61
- (b)(iii) 0.304

(b)(iv) 0.0339

Question C2

- (a) (15.72,20.68)
- (b) 20
- (c) (16.40,52.43)
- (d) ≈ 0.975
- (e) 0.9943