

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Analytical Chemistry

Subject Code : CCN2261

Session : Semester Two, 2015/16

Numerical Answers

Question B1

- (a) 7.6×10^{-2}
(b) $2.75 (\pm 0.08) \times 10^{-4}$

Question B2

- (a) 169.9 cm^3

Question B4

- (c) 0.156 mg / ml

Question C1

- (a)(i) 2.4 ppm
(a)(ii) 135 mg
(b)(i) $t_{S, \text{Red2G}} = 13.80$
 $t_{S, \text{Sunset Yellow}} = 10.31$
(b)(iii) 1.34

Question C2

(a)

Vol. of HCl added	pH
0	13.00
10	12.82
25	12.52
40	12.05
45	11.72
49	11.00
50	7.00
51	3.00
55	2.32
60	2.04