

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Physical Chemistry

Subject Code : CCN2275

Session : Semester Two, 2016/17

Numerical Answers

Question B1

- (a) 1.92×10^4
(c) 1.39×10^{-3}

Question B2

- (a) 413.4
(b) -50.73

Question B4

- (a) 0.175
(b) 0

Question B5

- (a) -213.9
(b) 0.13

Question C1

(c)

Steps	q (in kJ)	w (in kJ)	ΔU (in kJ)	ΔH (in kJ)
i	56.1	0	56.1	93.5
ii	+ 80.4	-80.4	0	0
iii	-93.5	+37.4	-56.1	-93.5
cycle	43	-43	0	0

Question C2

- (a) 0.000807