

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Environmental and Energy Engineering **Subject Code** : CCN2252

Session : Semester Two, 2017/18

Numerical Answers

Question B3

77.2 *dB*A

Question B4

591L/h

Question B5

104.4m²

Question C1

(b)(i) 1.408m/s

Question C2

(a)(i) 0.0430, 19.12 m² *Sabine*

(b)(i) 69.0*dB*A

(b)(ii) 66.1 *dB*A

Question C3

(a)(ii) 16.21mg/L, 6.39mg/L, 1.905 mg/L

Question C4

(a)(ii) 5.67×10^9 kJ/yr

(a)(iii) 80 *houses*

Question C5

(a)(i) 1.243×10^6 *tonnes*

(a)(ii) 11.35×10^3 L/s

(b)(i) 191.5×10^3 kg *CO*₂-*eq*, 770×10^3 kg *CO*₂-*eq*, 31.6×10^3 kg *CO*₂-*eq*