

Environmental Engineering

Tutorial 4 – Noise

Answer two questions in Section A and any one question in Section B.

Complete all calculation in the notes.

Section A

1(a)	Define decibel, SWL, SIL, SPL, phon.
1 (b)	Describe the relationship of SIL/Sound Power level, intensity & pressure, point source & line source.
1 (c)	Describe the effects of noise on hearing and the nature of hearing.
2 (a)	Describe the measurement of noise and the use of A-weighting.
2 (b)	Briefly describe the measurement of Traffic noise.
3 (a)	Describe the control of noise in construction site.
3 (b)	Describe the control of traffic noise.
4	Describe the legislation framework of noise control in Hong Kong.

Section B

1	Critical review the noise pollution problems in Hong Kong.
2	Evaluate the roles of civil engineering in noise pollution control.