

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : General Microbiology

Subject Code : CCN2232

Session : Semester Two, 2017/18

Numerical Answers

Question B1

- (a) $2 \text{ cm} = 20 \text{ mm} = 20,000 \text{ }\mu\text{m} = 20,000,000 \text{ nm}$
Magnification = Image size/actual size = $20,000,000 \text{ nm}/100 \text{ nm}$
= 200,000 times
- (c) $N = 1 * 10^n$
- (d) $N = 1 * 10^{(60/10)}$
= $10^6 = 1 \text{ million viruses}$