

ENGINEERING TRIPOS PART IIA 2014
MODULE 3B6: PHOTONIC TECHNOLOGY
NUMERICAL SOLUTIONS

- Q.1 (b) (i) 0.07, (ii) 1.4 ns, (iii) 2.8 mW, (d) 0.25 eV
Q.2 (c) 508 μm , (d) 0.62 nm
Q.3 (c) (ii) - 25.0 dBm, (iii) 268 (or 24.3 dB), APD
Q.4 (c) 7.0 μm , 2.9%, (d) (i) 149 km, -46.7 dBm