

## Numerical Answers

Q.1 (c) (i)  $1.31 \mu\text{m}$ , (ii)  $2.4 \%$ , (iii)  $44 \text{ mA}$ , (iv)  $1.2 \text{ ns}$

Q.3 (c)  $0.12 \mu\text{W}$ , (d)  $16 \text{ nW}$

Q.4 (c) (i)  $1.493$ , (ii)  $11.4 \mu\text{m}$ , (iii)  $167 \text{ km}$ , (iv)  $-54 \text{ dBm}$