Assignment 2 - Solution key

Part 1

1. (c), 2. (a), 3. (c), 4. (b), 5. (a) and (d)

Part 2

- 1. Direct writing and small (submicron) feature size
- 2. Emitter push effect
- 3. Forms SiO₂; Etches oxide; Acts as a buffer
- 4. Isotropic

Part 3

- 1. (a) $6.77 \times 10^{15} / \text{cm}^2$, (b) $4.92 \ \mu\text{m}$, (c) $4.5 \times 10^{19} / \text{cm}^3$
- 2. (a) 7.5×10^{15} /cm², (b) 6.267×10^{20} /cm³, (c) 1.37×10^{18} /cm³