Solutions

2.1

- $\beta 1$ – selectivity spares the heart ✓.

2.2

- Dry mouth, fixed dilated pupils, tachycardia, urinary retention (any three) ✓.

2.3

- $\alpha 1$ keeps venous and arterial tone; blocked, standing pools blood below the heart ✓.

3.1

- $\beta 1$ blocker: heart rate and contractility fall ✓.
- $\alpha 1$ blocker: pressure falls, postural drop ✓.
- $\beta 2$ agonist: bronchi open, cardiac effect minimal ✓.
- M blocker: secretions dry, accommodation blurs ✓.
- $\beta 1$ selectivity avoids $\beta 2$ airway blockade in airway disease ✓.

3.2

- A: cholinergic – M rows firing (miosis, secretions, gut) ✓.
- B: anticholinergic – M rows silenced (dry, dilated, fast, retention) ✓.
- Bronchorrhoea floods the airway and impairs ventilation – the dangerous row ✓.