Solutions

2.1

- Sympathetic T1–L2 (thoracolumbar); parasympathetic craniosacral III, VII, IX, X + S2–S4 ✓.

2.2

- $\beta 2$ ✓.

2.3

- Ptosis, miosis, anhidrosis – sympathetic ✓.

3.1

- Bronchi dilate ($\beta 2$ on airway smooth muscle) ✓.
- Skeletal-muscle vessels dilate; heart unchanged ($\beta 1$ not engaged) ✓.
- Gut motility falls ($\beta 2$ and sympathetic dominance) ✓.
- Exception: sweat glands are sympathetic but cholinergic ✓.

3.2

- Triad = sympathetic pathway lesion, side right ✓.
- Fixed dilated pupil instead = parasympathetic III (or its compression) ✓.
- Adrenal medulla: ~80 % adrenaline / 20 % noradrenaline – a ganglion modified to secrete into blood ✓.

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