Solutions

2.1

- The spinothalamic tract – within 1–2 segments of entry ✓.

2.2

- Aβ touch traffic inhibits C-fibre pain in the dorsal horn – gate control ✓.

2.3

- C3–C5, shared by diaphragm and shoulder skin ✓.

3.1

- (i) LEFT fine touch/vibration/proprioception loss below T6 – the dorsal column has not crossed ✓.
- (ii) RIGHT pain/temperature loss below – fibres already crossed in the cord ✓.
- (iii) The pain loss starts 1–2 segments BELOW the lesion – fibres ascend briefly before crossing ✓.
- Each finding follows its own crossing level; together they name a hemisection.

3.2

- Symmetric, length-dependent, no sensory LEVEL – not a cord pattern ✓.
- No crossed modality split (both modalities lost together in the feet).
- Peripheral pattern: distal LMN signs – absent ankle jerks with normal plantar responses ✓.